Sion to OGCC		
FILE NOTATIONS		
Entered in NID File	Checked by Chief	***************************************
Entered On S R Sheet	Copy N I D to Field Office	******************
Location Map Pinned	Approval Letter	
Card Indexed	Disapproval Letter	
I W R for State or Fee Land		
COMPLETION DATA:		·
Date Well Completed 5-18-52	Location Inspected	
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REMARKS Newnoncompetitive	<u>lease issued und</u>	<u>ler Sec. 17 of Act of</u>	8-8-46
*Unsurveyed land. Location	n: S. 52 ⁰ 37' 1!	5" E <u>. 9627.95' from</u>	corner common to
	T.14 & 15 S. au	nd R. 17 & 18W.	•

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**************************************	/	DEDI ACE	MENT CHEET
		REFLANE	VENT SHEET



CHEVRON OIL COMPANY

WESTERN DIVISION

1700 BROADWAY P.O. BOX 599 DENVER COLO 80201

March 21, 1967

The State of What

Oil & Sax Conservation Commission

348 L. South Semple

Salt Lake Costy, Utak 84/11

Atta: Sheion Teameron Geerde Elick

Dear This Esameson:

In accordance with your request, we are enclosing by and completish reports on Standard Hell Burbank Unit #1, tell on Standard Hell Burbank Standard Hell See. 3, T22 S, R 19 H, and Standard Hell See. 8, T15 S, R 19 H. Deerlation Unit #1, See. 8, T15 S, R 19 H.

Tery truly yours, Theorem Oil Tempany St. Ives Gray Gertogical Constant

STAIDARD OIL COMPANY OF CALIFORNIA

FIRE Percletion Anticline, Millard County, Utah.

PHOPELIE: Desolation Unit #1

WELL NO .: Desplation Unit #1

Sec. 8 T. 158 F. 17M S.L. B.& H.

LOCATION: South 565.00' and east 2370.71' of the northwest corner of Section 8-153-17W.

ELEVATION 5530.61 Derrick Floor.

D.F. is 10.61 above may.

DATE:

DETLUED BY: Shemrock Drilling and Exploration Co.

DATE COLAMEICED DRILLING: December 5, 1951 ,

DATE COMPLETED DRILLING: May 18, 1952

DATE OF INITIAL PRODUCTION: None. Well abandoned May 18, 1952

SUMMARY

Total Dapth: 6200!

Plurs: Cement bridge at 4604; 20-foot cement plug at surface.

(asing: 22"-18"; 16"-204"

Juni: None

Drillers: W. L. Brunton T. W. Barnes

The following are the formation tops in this well:

Supsi sandstone - Permian

Dird Springs limestone - Pennsylvanian

Chainman shale - Miss.

Joana limestone - Mississippian

Pilot shale - Miss.

Guilmette limestone ?-Devonian

Guilmette dolomite - Devonian

Guilmette dolomite at TD

Surface

1175' ?

2514'

620'

540'

5754'

6200'

POOR GOPY





BRANDARDO OSTA, OCTODORTE DE CANTILICADA - CRENARCE

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POOR GOPY

STARIA II-51 III 1914 1920 Riigild Stal (19 1811 Riigild Ool (2013 Ulaa)



Devolution Unit #1 is a joint Standard-Sinclair Exploratory well located approximately minty-five miles north of Garrison, Utah. The well was drilled to test the Poschauden articline with the lower Birds Springs formation and the Joans Linestone as the principle objectives. The well was drilled by Shamrock Drilling and Exploration. Co., contractors, using partable rotary equipment.

Cemented 22" conductor pipe at 18'. November 15, 1951 Spudded at 10:20 a.m. December 5, 1951 Drilled 15" hole 18'-168', sandstone with some Decomber 5-9, 1951 dolomite, limestone, and chert. Drilled 122" hole 168'-410', sandstone with December 9-12, 1951 streaks of dolomite. Opened 15" hole to 19^{1}_{2} " from 18'-141'. December 12-13, 1951. Drilled 121" hole 410'-420', sandstone with streets December 13-14, 1951 of dolomite. Diamond cored 7" hole: December M., 1951 Recovered 15: 435! 151 7501 15 1: Dolomite, gray, very 424 420 hard, dense, mierocrystalline, Vory little fracturing. 51 Sandstone, built white, 4291 4240 line comented. Few calcito-filled fractures. 61 Dolomite as first above 4351 1.291 (4201-4241): NOSC. No fluorescence.

December 14-16, 1951

Opened 7" hole to 124" from 420'-435' and drilled 124" hole 435'-500', sandstone with streaks of dolomite.

December 16, 1951

Opened 15" hole to 192" from 141'-163' and opened 15" hole to 18-5/8" from 168'-204'.

•

Commented 208' of 16" o.d. Time pipe at 114 and 122 sacks of Utah Construction coment. Proceeded coment with 3 barrels of water and displaced with 46 barrels of mud, which is 2 barrels in excess of theoretical displacement. Plugs did not bump. Fifteen minutes mixing and thirteen minutes displacing. Had full returns throughout job and had cement returns to surface during final period of displacing. Used two Halliburbon top wooden plugs and a 6" x 8" x 14" spacer. Final pressure was 0 psi. Cement in place at 2:45 a.m. Used Halliburton power equipment.

Cosing Detail:

All 207.52' or 5 jts. is 16", 62.58#, Grade B, new National seculess plain end line pipe equipped with welded-on collars to provide slip joint couplings.

Baker cement guide shoe.

Total 203.85' of 16" casing cemented at 204'.

Cut and recovered 20.35' of 16" casing, 15.50' of which was below the derrick floor.

December 17, 195I

Located top of cement in annulus at 49. Filled annulus outside of 16" casing from 49! to surface with 14 sacks of Utah Construction cement.

December 17, 1951

Landed 16" casing.

December 18, 1951

Installed BOPE. Tested positive rams and drill pipe rame to 500 psi for 15 minutes. Held okay.

December 18, 1951

Drilled out plugs, spacer, and cement from 1894-2044. Opened 124" hole to 15" from 2044-214.

December 19-20, 1951

Drilled 12th hole 500'-568', dolomite, and sandstone.

December 20, 1951

Drilled 9-7/8" hole 568'-618', dolomite, and sandstons. Lost circulation completely while drilling at 618'. Located fluid level at 230'. Fumped in "O barrels of mud and filled hole to surface. Fluid level held at surface.

POOR GOPY

December 21, 1951

Drilled 9-7/8" hole 618'-655', dolomite and sandatone.
Lost circulation at a rate of 36 to 200 parrels per hour,
while drilling from 651'-655'.

December 21, 1951

Cemented for lost circulation. Proped in 40 sacks of Utah Construction cement and 2 sacks Calseal mixed with calcium chloride water through open-end drill pipe at 654. Followed cement with 62 barrels mud to displace. Four minutes mixing and two minutes displacing. Cement in place at 2:30 p.m. Used Halliburton power equipment.

December 21, 1951

At 7:00 p.m. located top cement plug with open drill pipe at 635'. (19' fill up).
At 7:30 p.m. filled hole with mud. Fluid level held at

surface.

December 21-22, 1951

Drilled out cement plug. 620'-655' and drilled 9-7/8' hale 655'-665', sendstone and dolomite, with full returns.

Decomber 22, 1951

Diamond Cored 7" hole:

6651

675' 10'

Recovered LO':

6651

5' 675'

101

Dolomitic siltatone, gray, hard, slightly siliceous with versical to very high angle fractures. One very poor dip of 10°. MOSC.

December 22-24, 1951

Opened 7" hole to 9-7/8" from 665'-675' and drilled 9-7/8" hole 675'-831', dolomite and siltstone.

December 24, 1951

Diamond Cored 7" hole:

8311

841

10'

8311

8411

Recovered 101:

Dolomitic siltstone, dirty, doll gray, very hard, tough, donse. The first 2' consist of a slightly darke extremely fine-grained, slightly limey silt. The lower section consists of silt-size quarts grains grading to some sand-size grains with sbundant dolomite cement. Common high angle fracturing, generally calcite filled, but with occasional calcits organal lined was and epocings. Very little yellow Linemite (?) staining. Vory poor P & P in Hurst 2'; but poor to fair R & P in Lower 81. No stain, cut, or Alvorosconco; but a fresh surface has a very faint fetid, to petroliferous odox.

December 24. 1951 (Contid)

Diamond Cored 7" hole:

811' 851' 10' 811' 851' 10'

Rocovered 1.01 Sandstone, build to gray, very hard, tough, dense. First 5° are highly chartered and fracbured with some thin low anglenones filled with a fine clay, gouge-like, makerial. Lower 51 have some high angle fracturing, normally calcide filled. Entire core has common small calcite erystals lined vugs and openings. Grain size varies from fine to entremely fine and silty with dolo-. mite cement and slightly siliceous. Abundant yellow limonite staining in top 5', common in lower 5'. Poor to fair P & P. MOSC and no fluorescence.

December 24, 1951

Opened 7" hole to 9-7/8" from 831'-851' and drilled 9-7/2" hole to '851'-864', dolomitic sandstone. Lost circulation completely while drilling at 864'.

December 25, 1951

Cemented for lost circulation. Pumped in 50 sacks of Utah Construction cement mixed with 5 sacks Calseal and 7.5 barrels of CaCl2 water through open and drill pipe at 862'. Preceded cement with 7 barrels of Gel much mixed with 1 sack Silvacel and displaced cement with 3.5 barrels water. 3 minutes mixing and 2 minutes displacing. Cement in place at 1:30 a.m. Used Halliburton power equipment.

December 25, 1951

At 5:30 a.m. located top cement plug at 800' and fluid level at 689'. At 9:00 a.m. drilled out cement 800'-864' and drilled 9-7/8" hole 864'-870', sendstone and dolomite. Locate circulation completely while drilling at 370'. Drilled 9-7/8" hole 870'-875' with water and without returns.





Book ther 25, 1951.

llan itt fa

Cemented for lest circulation. Purped is 40 sacks of Utah Construction cement mixed with 4 sacks Calsock and 6.5 barrels of CaCl₂ water through open end crill pipe at 872'. Proceded cement with 9 barrels of Gel mud rised with 1 sack Silvacel and displaced cement with 3.5 barrels union. 3 minutes mixing and 1 minute displacing. Common in place at 3:00 p.m. Used Halliburton power equipment.

December 25, 1951.

At 7:00 p.m. ran open end drill pipe to bottom (8751) and found no cement.

Docember 25, 1951

Comented for lost circulation. Pumped in 35 sacks of Utah Construction cement mixed with 3 sacks Calseal and Cattle water through open end drill pipe at 8721. Displaced cement with 3.5 barrels water. 22 minutes mixing and 1 minute displacing. Cement in place at 8:00 p.m. Used Halliburton power equipment.

Describer 26, 1951

At 12:30 a.m. located top cement plug at 796' with open end drill pipe. At 3:00 a.m. drilled out cement 796'-875' with full returns, then lost circulation completely at 875'.

December 26, 1951

Commented for lost circulation. Pumped in 35 sacks of Utah Construction cement mixed with 3 sacks of Calscal and steam-heated CaCl₂ water. Displaced cement with 3.5 barwels water. 2 minutes mixing and 1 minute displacing. Cement in place at 8:45 a.m. Used Halliburton power equipment.

December 26, 1951

At 2:00 p.m. ran bit to bottom and found no commit. Deilled 9-7/8" hole 875'-888' with water and without returns.

December 26, 1951

Comented for lost circulation. Pumped in 27 sacks of Whah Construction cement mixed with 3 sacks Calsacl and CaCl2 water through open end drill pipe at 886. Followed coment with 3.5 barrels water to displace. 2 minutes mixing and 1 minute displacing. Coment in place at 4:30 p.m. Usud Halliburton power equipment.



STANDARD OIL COMPANY OF CALLFORNIA-CETRATOR

December 26, 1951.

At 8:30 p.m. ran Halliburton wireline to bottom (SS') and found no cement. Mixed 45 barrels thick Col mud and Silvacel and spetted on bottom through open and drill page.

December 26, 1951

Commented for lost circulation. Pumped in 35 cache Utch Construction cement mixed with 3 cache Calcord and GaChe water through open end drill pipe at 856. Followed commit with 3.5 barrels water to displace. 3 minutes mixing and 1 minute displacing. Cement in place at 10:50 p.m. Used Halliburton power equipment.

December 27, 1951

At 3:00 a.m. ran Halliburton wireline to 888' and found no coment.

December 27, 1951.

Cemented for lost circulation. Pumped in 50 sacks Utali Construction cement mixed with 5 cacks Calserl and 7 barrels of CaCl2-Gel water. Followed cement with 3.5 barrels water to displace. A minutes mixing and 1 minute displacing. Cement in place at 5:00 a.m. Used Halliburton power equipment.

December 27, 1951.

At 9:00 a.m. located top cement plug at 873' using Halliburton wireline.

December 27, 1951.

At 11:00 a.m. pumped in approximately 3 pive of water (180 bbls.) and filled hole, but fluid dropped away at the rate of 84 barrels per hour.

December 27, 1951

Comented for lost circulation. Pumped in 35 sacks of Wah Construction cement mixed with 3 sacks of Galacal and CaCl2-3% Gel water through open and drill pipe at 671. Displaced with 5 barrels water. 3 minutes mixing and 1 minute displacing. Coment in place at 1:20 p.m. Used Halliburton power equipment.

Necessar 27, 1951

PESTE MILON LONG AL

the col next UTAM

At 5:30 p.m. located top coment plug at 338' using Halliburton wireline. Attempted to fill hole with rater but unable to raise fluid level above 1901.

December 27, 1951

Comented for lost circulation. Pusped in 35 sacks of Utah Construction coment mixed with 3 saiks of Galseal and CaClo water through open and drill pipe at 8351. Followed coment with 10.5 barrels of water to displace. 2 minutes mixing and 3 minutes displacing. Coment in place at 7:00 p.m. Used Halliburton power equipment.

December 27, 1951.

At 11:00 p.m. located top cement plug at 732' with Halliburton wireline.

December 28, 1951

Cemented for lost circulation. Purped in 35 sacks of Stahs Construction cement mixed with 3 sacks Callead and Call, -35 Gel water through open end drill pipe at 6201. Follows cement with 6 barrels water to displace. 3 minutes mixing and 2 minutes displacing. Cement in place at 12:50 a.m. Used Falliburton power equipment.

December 28, 1951

At 5:00 a.m. located top cement plug at 575' with Melkiberton wireline. At 6:00 a.m. pumped 30 bearels and in Acle but unable to raise fluid level above 1351.

December 28, 1951

Cemented for lost circulation. Pumped in 40 sacks of Utah Construction cement mixed with A sacks Colseal and Cally-2.5% Gel water through open end drill pipe at 210. Fellowa cement with 22 barrels water to displace. 3 minutes mixing and I minute displacing. Cement in place at 6:55 a.m. Used Halliburton power equipment.

Docember 28, 1951

At 11:00 a.m. filled hole with mud and fluid level held at surface. Ran 9-7/8" bit and drilled out cement 559'-673' with full returns. Lost circulation completely while drilling out cement at 8781. Cleaned out coment 6781-5001 without returns.

Street Skeliger President blid 62 Durels Courts Unit

STANDARD OIL COMPANY OF CALIFORNIA OPERATOR

. Decomber 29, 1**9**51

Comented for lost circulation. Pumped in 35 cacks of Wish Construction cement mixed with 3 cacks of Calceal and CaCle water through open end drill pipe at 836'. Followed count with 3 barrels of water. 3 minutes mixing and 1 minute displacing. Coment in place at 12:15 a.m. Used Malliburton power equipment.

December 29, 1951.

At 4:25 a.m. located top of cement at 753' with Halliburton line. Filled hole with mud at 8:45 a.m. and fluit level held at surface. At 9:45 a.m. Ran 9-7/3" bit and located top soft cement at 753'. Cleaned out firm 824'-833' with full returns to surface.

December 29-30, 1951

Drilled 9-7/8" hole 838'-972', dolomite and linestone with full returns.

December 30, 1951

Diamond Cored 7" hole:

972' 982' 10' 972' 982' 10' Recovered 10':
Shaly limestone, light gray, hard, dense, finely sugary crystalline, and arenaceous, with very common high angle fractures filled with calcite, rare possible fossill replacements and common stylides, dips vary between 3-25°. NOSC.

December 30-31, 1951

Opened 7" hole to 9-7/8" from 972'-932' and drilled 9-7/8" hole 982'-1004', limestone. Lost circulation completely while drilling at 1004'. Located fluid level at 372'.

December 31, 1951

Cemented for lost circulation. Pumped in 50 (568) sacks of Panacrete 1:1:6% Gel premix through open drill pipe at 1002. Followed cement mix with 8 barrels mud to displace. A minute mixing and 2 minutes displacing. Cement in place at 2:15 p.m. Used Halliburton power equipment.

December 31, 1951

At 6:30 p.m. ran Halliburton wireline and located questionable top cement plug at 700. At 7:30 p.m. filled hole with mud and fluid level held okay.

Jaros & L. 1834

3.750

Ran 9-7/8" bit, cleaned out central bridge 600 -653 and drilled 1004'-1006' with full returns. Lost circulation completely at 1006', and bit ground 2' to 1006'. Bit took weight at 1005', then dropped 2' to 1006', where bit again took weight, then dropped 1' to 1002'. Willed 9-7/8" hole 1008'-1022' with and and water and mithous returns.

January 1, 1934

Cemented for lost circulation. Purped in 50 socks Panagratocement (1:2:6% Gel) premix mixed with 7% becrols Calle withs
and 2% sacks Calseal to average 10% pcf slurry through open
end drill pipe at 1018. Followed coment-Panagrete mixture
with 5 barrels water to displace. 5 minutes mixing and 1%
minutes displacing. Coment in place at 2:35 p.m. Used
Halliburton power equipment.

January 1, 1954

Ran open end drill pipe to 1022' and found no coment. Fluid level stood at 380'.

January 1, 1952

Cemented for lost circulation. Pumped in 35 sacks fanacrote-cement (1:2:6% Gel) premix mixed with 5 sarrels CaCl2 unter and 2 sacks Calseal to average 108 per slurry through open end drill pipe at 1018'. 3 minutes mixing and 2 minutes displacing. Cement in place at 7:15 p.m. Used Halliburged power equipment.

January 2, 1952

Comented for lost circulation. Pumped in 25 macks Whah Construction cement and 3 sacks Calsoal followed with 12 sacks Panacrete-cament (1:2:6% Gel premix), all mixed with warm CaCl₂ water through open and drill pipe at 1008. Followed cement and Panacrete-cament mix with 5 bearels water to displace. A minutes mixing and 2 minutes displacing. Cement in place at 12:15 a.m. Used Halliburted posses equipment.

January 2, 1952

Ran open end drill pipe to 1022' but found no cament.

Jerus 2, 1932

Construction coment mixed with 3 sacks (slace), and Colly-3/2 Cel unter through open-and drill this at 1000. Follows coment with 5 berrols water to displace 3 drukes civing and 2 minutes displacing. Cerent in place at 5:05 a.m. Used Halliburton power equipment.

Jermery 2, 1932.

Ran open-end drill pipe to 1022' but found no cement.

January 2, 1952

Construction coment mixed with 3 sacks (sleed and CoCl2 water through open-end drill pipe at 1000. Followed coment with 5 barrels water to displace. 3 minutes mixing and 2 minutes displacing. Coment in place at 9:40 a.m. Used Halliburton power equipment.

January 2, 1952

At 2:15 p.m. located top cement plug at 1019' with openend drill pipe.

Jermony 2, 1952

Spotted bentonite-diesel mixture through open-and drill pipe at 990'. Pumped in 10 barrels diesel oil and followed with 19 barrels of Wyogel-diesel mixture (3 racks Wyogel to I barrel diesel oil) through open-and drill pipe at 990'. Followed Wyogel-diesel oil mixture with 7 barrels diesel oil 5 minutes pumping in mixture and 2 minutes displacing. Pumped in 10 barrels Gel mud through annulus with rig props while displacing mixture through drill pipe with Malliburion power equipment. Gel mix in place at 4:05 p.m.

Jeruary 2, 1952

Pumped in 150 barrels and but unable to fill hole.

January 2, 1952

At 8:45 p.m. ran open-end drill pipe and located top of solid plug at 1011'. (8' fill-up)

January 2, 1952

Comented for lost circulation. Pumped in 35 sacks of Jush Construction coment and 3 sacks of Calasal mixed with Jufflg water through open-and drill pipe at 1009. Pollowed assent with 5 barrels water to displace. 3 minutes utiling and 2 minutes displacing. Coment in place at 9:10 p.m. Used Calliburton power equipment.

January 3, 1952

Located top plug at 1010' with open-and drill pipe.

Junuary 3, 1952

Commented for lost circulation. Pumped in 35 sacks of Which Construction dement mixed with 3 sacks Colsest and CaCle water through open end drill pipe at 1007'. Followed careautiful 5 bearels water to displace. 3 minutes mixing and 12 minutes displacing. Comment in place at 2:20 a.m. Used Halliburton power squipment.

January 3, 1952

At 5:30 a.m. located top of plug at 1010; with open and drill pips.

January 3, 1952

Spotted bentonite-diesel mixture through open and drill pipe at 990'. Pumped in 10 barrels diesel oil and 16% barrels wyogel-diesel mixture (3 sacks Wyogel to 1 barrel diesel oil) through open and drill pipe at 990'. Followed mixture with 6 barrels diesel oil to displace and pumped 10 barrels and in annulus with rig pumps while mixture and diesel oil were being pumped in through drill pipe with Halliburton power equipment. 7 minutes pumping mixture and displacing fluid. Gel mix in place at 8:30 a.m.

January 3, 1952

At 12:30 p.m. pumped in 124 barrels mud and filled help to surface, but fluid dropped away at 70 barrels per four rate.

January 3, 1952.

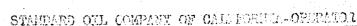
Spotted bentonite-diesel mixture through open and drill ripe at 990'. Pumped in 6 barrels diesel oil and 30 barrels Wyogol-diesel mixture (14 barrels diesel oil mixed ad th 42 sacks Wyogel) through open and drill pips at 990'. Followed mixture with 6 barrels diesel oil to displace. Pumped 114 barrels mad in annulus with rig pumps during period addressed was being pumped in and displaced with Fallifurton power equipment. 7 minutes pumping mixture and displacing about Gel mix in place at 3:00 p.m.

January 3, 1952

Filled hole with mud and fluid level held at surface. Rea 9-7/8" bit and cleaned out Gel 765'-1002' with full recurrent. Lost circulation completely while cleaning out at 1002'.

January 4, 1952

Spotted bentonite-diesel mixture through open end crill rips. at 990'. Pumped in 10 terrels diesel oil and 17 bentolis Wyogel-diesel rixture (14 barrels diesel oil sixed with 42 eacks Wyogel) through open end drill pipe at 990'. Tolked mixture with 6 berrels diesel oil to displace. Turnell barrels mud in annulus with rig pumps while Wyogel-diesel mixture was being pumped in and displaced title fellipurs. In power equipment. Reciprocated drill pipe through 10-10-06 interval, 980'-990', during entire job. 7 minutes pumping mixture and displacing fluid. Mixture in place as 4:05 a.s.



MILLAPO COURSES LEAR

Jenuary 4, 1954

Jennary A. 3.952

At 5:40 a.m. pumped in 30 barrels much through fill up line.

At 7:00 a.m. pumped in 60 Parrels and and filled hole to surface. Fluid level held okay. Ran 9-7/6" bit and cleaned out gel 923'-1013'. Lost circulation completely while electing out at 1013'.

Jenuary 4, 1952

Spotted bentonite-diesel mixture through open and drill pipe at 1012'. Pumped in 6 barrels diesel oil and 20 barrels Wyogel-diesel mixture (14 barrels diesel oil and 42 sacks Wyogel) through open end drill pipe at 1012'. Followed mixture with 6 barrels diesel oil to displace. Reciprocated drill pipe through 7-foot interval 1005'-1012' while pumping in and displacing mixture. Mixture in place at 4:05 p.m. Used Halliburton power equipment.

January 4-5, 1952

At 7:00 p.m. filled hole to surface and fluid level held okay. Ran 9-7/8" bit and cleaned out gel 913'-952' and lost circulation. Pulled out and filled hole to surface. Fluid level held okay. Re-ran 9-7/8" bit, cleaned out gel to 955, and lost circulation.

January 5, 1.952

Cemented for lost circulation. Pumped in 50 sacks of Wish Construction cement mixed with 5 sacks of Calceal and 7 barrels CaCl₂ water (average 117 pcf slurry) through open end drill pipe at 920' with drill pipe rams closed. Displaced cement with 12½ barrels water. A minutes mixing and A minutes displacing. Final pressure estimated at 150 psi. Opened rams but had no flow back from annulus, although Eluid was at surface before and after job. Had approximately 2½ barrels flow back from drill pipe after breaking connection. Cement in place at 8:25 a.m. Used Halliburton power equipment.

January 5, 1952

At 2:45 p.m. located top plug at 953'. Cleaned out with 9-7/8" bit 953'-1022' with full returns.

January 5, 1952

Drilled 9-7/8" hole 1022'-1023' and lost circulation completely while drilling at 1023'.

January 5, 1952

Cemented for lost circulation. Pumped in 50 seeks cament-Penacrete premix (1:2:6% Gol) which with 2 beyonk Gollo water through open end drill pipe at 1022'. Indicated communications which a barrels water to displace. A minutes mixing and 2 minutes displacing. General in place at 11:35 p.m. Used Halliburton power equipment. ** \$590 to 1.00 STANDARD OIL COMMAN ! OF CALLFORN L. -OF MALDR Ran open-end drill pipe to 1023' but found no coment. derniczy 5, 199\$ Located fluid level at 735%. Spotted bentonite-diesel mixture in bottom through open end Jehnery 6, 1952 drill pipe at 1022'. Pumped in 6 barrels diesel oil and 20 barrels Wyogel-diesel mixture (14 barrels diesel cil mixture) with 42 sacks Wyogel) through open end drill page at 10221 Followed mixture with 6 barrels diesel oil to displace. Reciprocated drill pips through 7' interval 1022'-1015' while pumping in and displacing. 7 minutes pumping and displacing mixture with Halliburton power equipment. Mixture in place at 9:10 a.m. Located fluid level after job at 270'. Pumped in 57 barrels January 5, 1952 mud through drill pipe at 200', but unable to fill hole. January 6, 1952 At 11:30 a.m. located top plug at 928. January 6, 1952 Cemented for lost circulation. Purped in 50 sacks of Utah Construction cement mixed with 5 sacks Calson, and CaCl, water (average 120 pcf slurry) and followed which 15 section Panacrete-cement mix (1:2:4% Gel) mixed with CaClo water . (average 90 pcf slurry) through open end drill pipe at 223%. Followed cement with 5 barrels water. Cement in place 35 12:50 p.m. Used Halliburton power equipment. Had no requires to surface during job, but had 3 barrels back flow whom breaking pipe connection to pump. January 5-7, 1952

Filled hole with mud and fluid level held at surface. Hard 9-7/8" bit and located top plug at 865'. Cleaned out gall and cement 865'-1023' with full returns. Drilled 9-7/8" hole 1023-1031', gray dolomite. Lost circulation completely while drilling at 1031'.

January 7, 1952

Spotted 20 barrels bentonite-diesel oil mixture through drill pipe at 1027'. Pumped in 6 barrels diesel oil and followed with 20 barrels bentonite Wyogel-diesel oil mixture (14 barrels diesel oil and 42 sacks Wyogel, through open end Critil pipe at 1027'. Followed mixture with 6 barrols diesal oil to displace. Reciprocated drill pipe through 7' interval (10201-1027') while mixture was being pumped in and displaced, minutes purping and displacing mixture with Halliberton course equipment. Wixture in place at 6:05 a.m.

January 7, 1952

Located fluid level at 460'. Pumped in 120 berrold and filliad hole. Fluid level held okay. Located top gel plug at 2001. Ran 9-7/8" bit and cleaned out gel 9091-10311. Locat chrouldtion at 1031.

Stantaga S 1 Basofacan da A. 7 Britaga Coloria (STANDARD OIL CONTACT OF CALLFORNIA COPERATOR
January 7, 1912	Drilled 9-7/8" hole 1031'-1037' with water and without returns.
January 7, 1952	Spotted 10 bearrols bentonite-dissel oil minture through drill pipe at 1033' and 30 sacks Utah Construction coment through drill pipe at 917'. Fumped in 6 bearrols dissel oil and followed with 10 barrols Wyogol-dissel oil minture (7 bearrols dissel oil and 21 sacks Wyogol) through open and drill pipe at 1033'. Followed mixture with 5 barrols dissel oil to displace. Pulled drill pipe at 917' and purped in 30 sacks Utah Construction cement mixed with CaCl2 water and followed with 5 barrols water to displace. Cement in place at 6:45 p.m. Used Halliburton power equipment.
January 7, 1952	At 11:30 p.m. filled hole with mud and fluid level held at surface.
Jamany 8, 1952	Ran 9-7/8" bit and located top plug at 973'. Cleaned out 973'-1037' with full returns. Drilled 9-7/8" hole 1037'-1040'. Lost circulation completely while drilling at 1040'. Drilled 9-7/8" hole 1040'-1070' with water and without returns
January S, 1952	Spotted 10 barrels bentonite-diesel oil mixture on bothom through drill pipe at 1069'. Pumped in 6 barrels diesel oil and followed with 10 barrels Wyogel-diesel oil mixture (21 sacks Wyogel to 7 barrels diesel oil) through open and crill pipe at 1069'.) Followed mixture with 6 barrels diesel oil to displace. 4 minutes pumping in and displacing mixture with Halliburton power equipment. Pumped 6 barrels under in annulus with rig pumps while mixture was being pumped in and displaced through drill pipe. Reciprocated pipe through 7' interval (1062'-1069') during entire job. Mixture in place at 2:00 p.m.
January 8, 1952	At 4:00 p.m. filled hole with dilute Gel mud. Fluid lovel held at surface.
January 8, 1952	Ran 9-7/8" bit to 890' and attempted to break circulation. Unable to obtain returns although fluid level held at surface while mud was pumped in through drill pipe. Ran open end drill pipe and located top plug at 1034'.
January 8, 1952	Spotted 10 barrels bentonite-diesel oil minture through drail plue at 1033' and 30 sacks comparation escape through drail pipe at 912'. Function 6 barrels diesel oil and foliated with 10 barrels Myogol-diesel oil minture (7 barrels diesel oil and 21 cacks Gel) through open and drail pipe ab 4033'. Followed minture with 5 barrels diesel oil to displace. The ture in place at 9:40 p.m. Pulled drill pipe to 912' and pumped in 30 sacks Utah Construction cement mixed with 5 deck Calseal and 5 barrels CaCl2 water. Followed cacent with 5 barrels water to displace.

Jeress y 8, 1952 (dent'd) Cement in place at 10:05 p.m. Used Helliburion power equipment. Pulled drill pipe and susped in 10 barrels water through fill-up lines.

January 9, 1952

At 3:00 a.m. filled hole with mud and fluid local held at surface. Ran 9-7/8" bit and located top plug at 869'. Cleaned out plug 869'-1070' with full returns. Drilled 9-7/8" hole 1070'-1073', gray dolocate. Lost circulation completely while drilling at 1073'.

January 9, 1952

Spotted 10 berrels bentonite-diesel oil mixture through drill pipe at 1072' and 30 sacks construction coment through drill pipe at 912'. Pumped in 5 berrels diesel oil and followed with 10 berrels Wyogel-diesel oil mixture (7 berrels diesel oil and 21 sacks Gel) through open and drill pipe at 1072'. Followed mixture with 5 berrels diesel oil to displace. Pumped in 10 berrels water through fill-up line into ennulus with rig pumps while displacing mixture. Reciprocated drill pipe 7' (1065'-1072') throughout job. Mixture in place at 11:15 a.m. Used Halliburton power equipment. Pulled drill pipe to 912' and pumped in 30 sacks Utah Jourstruction coment mixed with 3 sacks Calseal and 4 berrels CaCl₂ water through drill pipe. Displaced with 5 berrels water. Cement in place at 11:45 a.m. Used Halliburton power equipment.

January 9, 1952

Filled hole with water and fluid level held at surface. At 6:00 p.m. located top plug at 905' with 9-7/6" bit. Cleaned out plug 905'-1073' with full returns.

January 9-10, 1952

Drilled 9-7/8" hole 1073'-1076' and lost circulation completely while drilling at 1076'. Drilled 9-7/8" hole 1076'-1104' with water and without returns.

January 10, 1952

Commented for lost circulation. Pumped in 30 sacks Utah Construction cement mixed with 3 sacks Calseal and 4 handle CaCl₂ water through open end drill pipe at 1102°. Followed cement with 5 barrels water to displace. Cement in place at 1:00 p.m. Used Halliburton power equipment.

January 10, 1992

At 5:00 p.m. located top plug at 1039' with Hallibrates wireline and located fluid level at 770'.

DESCRIPTION OF THE ALL METERS
January 10, 1952

Cemented for lost circulation. Pumped in 2 berrels dissoluted and followed with 3 berrels Wyogel-diesel oil mixture (2 berrels diesel oil—6 sacks fel) through open-end drill pipe at 1040. Followed diesel oil mixture with 1 berrel diesel oil, then pumped in 50 sacks Utah Construction cement mixed with 5 sacks Celscal and CaGlo water through drill pipe at 1040. Followed cement with 5 berrels water to displace. Cement in place at 7:30 p.m. Used Halliburton power equipment.

January 10-1J., 1952

At 11:30 p.m. (1-10-52), located top cement plug at 952 and fluid level at 685' with Halliburton wireline. Filled hole with water, and fluid level hold at surface.

January II, 1952

Located top plug at 962' with 9-7/8" bit. Cleaned out 962'-1104' with full returns. <u>Prilled 9-7/8" hole 1104-1130'</u>, sandstone and siltstone. While drilling 1115'-1130' loss of circulation increased from 11 barrels per hour to 35 barrels per hour. Unable to regain circulation with Silvacel and cotton seed hulls.

January 11, 1952

Cemented for lost circulation. Pumped in 55 cacks of Utah Construction cement mixed with 5 sacks Calseal and 8-1/2 barrels CaCl₂ water through open-end drill pipe at 1128. Followed cement with 5 barrels water to displace. 5 minutes mixing and 5 minutes displacing. Cement in place at 4:55 p.m. Used Halliburton power equipment.

January 12, 1952

Filled hole with mud and fluid level hald at surface. Located top plug at 1004' with 9-7/8" bit. Cleaned out cement 1004'-1130' and drilled 9-7/8" hole 1130'-1150', gray sandstone, with full returns.

January 12, 1952

Diamond cored 7" hole:

1150' 1160' 10' 1150' 1160' 10'

Recovered 10:
Sandstone, pale green buff to
light gray, very hard, tough,
lime cement and slightly siliceous, very fine-grained to siltsine quarts grains. Occasional
high-engle calcite-filled fractures, usually to 1/8"; but asveral are to 1/2" thick and slightly
open, with calcite crystal higher
staining. MOBC and no fluorescence. Good dips of 2"-3". Poor
P and P.



James 1, 17 1, 2-34, 13953

Opened 7" hole to 9-7/3" from 11:00-1160' and failled 9-1/6 hole 1160-1263', deric gray limestone and delicate.

. January 14, 1952

N. C.

Diamond Cored 7" hole:

1263' 1268' 5 1263' 1268' 5

5' Recovered 5':

Shaly delemite, black, bard, micro-cryshaltine. Occasion partial shale. Thin interlads of delemining shale. Thin interlads of delemining mitic siltstone (yellow and many fine grained) to I thick from 1263'-12669'. Occasional higher angle calcite-filled fractures. Possibly some fracture P and P. NOS. Siltstone has a very faint fluorescence and gives faint fluorescence cut. Good 50 digs.

January 14-16, 1952

Opened 7" hole to 9-7/8" from 1263'-1268' and <u>drilled 9-7/8"</u> hole 1268'-1365', limey shale and limestone.

January 16, 1952

Diamond Cored 7" hole:

1365' 1365'	1375' 1368'	3'	Recovered 10: Shale, dark gray to black, bard, dense, carbonaceous, slightly shely and siliceous.
1368'	1370'	2'	Limostone, creamy ashy gray, hard, dense, slightly silty, and firely crystalline with common calcutetilled fractures from 1/8° to 1/2° thick. Poorly preserved foscil fragments.
1370'	1373'	31	Limestone, dark gray, hard, cons- hoidal, shaly, and carbonacecus.
1373'	1.3751	2'	Limestone as in the interbedded 1368'-1370'. Core had good petroliferous eder on fresh breaks. Calcite-filled fractures have a gold fluorescence which gives a fluorescent cut. No

January 16-19, 1952

Opened 7" hole to 9-7/8" from 1365'-1375' and failled 9-7/8" hole 1375'-1518', limectone with some sandatone and siltetens.

stain. Poor P and P. Dips 70-80.

January 19, 1932

Diamond Coxed 7" hole:

15201

15181 1519-1/21 15181

Recovered L-1/21: 1.-1/2' Linestone, gray, hard, wery tough and dense, slightly carbond ferous with a very thin sholy parting, very finely orygicalline. The few thin high angle fractures are calcite filled. No stain, cut, or fluorescence. Fresh surface has an extremely faint fetid occr which immediately disappears. No apparent P and P.

1519-1/2' 1520'

1/2'

61

Not recovered.

January 19-23, 1952

Opened 7" hole to 9-7/8" from 15161-1520; and drilled 9-7/8" hole 1520'-1740', shely limestone, dolorite, and some chart.

January 23, 1952

Diamond Cored 7" hole:

17461 17401 17461 17401

61 Recovered 61:

> Linestone, gray, hard, tough, dense, usually quite pure sain fossiliferous but locally year shely, very finely orystalling, with a few modules and numerous beds or lenses (6"-1' thick) of chert, black, very hard, tough, dense, micro-crystalline. Taers are a vory few high-angle calcitafilled fractures to 1/6" thick, and some minute colleits-filled fractures. One tiny calcits crystal lined vug and no other apparent openings. NOSC and no fluorescence. No apparent P and P. Fair dips of 70-90.

January 23-24, 1952

Opened 7" hole to 9-7/8" from 1740'-1746' and drilled 9-7/8" hole 1746'-1782', limestone with some chert and dolomits.

Jamuary 25, 1952

Dismond Cored 7" hole:

17871 54 17821 51 17821 17871

Recovered 51: Linzatone, gray to dark gray, very hard, tough to slightly " brittle, fosmiliferous, leadly very silliceout, grading to durin gray and black chort, very thouly crystalline. Vorg fee high-mulb calcits-filled fractures and said calcite-filled yugs. Some Tops:

Jenus 19 25, 1912 (donwid)

vues are very slightly open, and some this fractures are slightly open. Here black thely portings. P and P appear to be very poor to poor within the far open was and fractures. There is a poor to a locally fair petroleum oder on the fresh surface and a very faint rare wary coloring or stain. ing in some of the calcite, out no apparent cil fluorescenso and no fluorescent cut. Poor dips of 4° -6°.

January 25-26, 1952

Opened 7" hole to 9-7/8" from 1782'-1787' and Grilled 9-7/8" hole 1787'-1864', limestone with some sandstone, dolomite, and chert. Lost circulation completely while drilling at 1864'. Located fluid level at 815' with Halliburton vireling.

January 27, 1952

Formation Test 1757'-1864'. Valve open 10 hours from 11:35 a.m. Had good blow for 2 minutes, diminishing to light blow for 1 minute and to faint for a minute. Dead in 5 minutes. Began swabbing after dead for 30 minutes. First fluid swabbed tested: pH 10.5; C1 200 ppm. On the 20th swabbing the fluid had a faint white to greenish white Amorescence which gave the same color fluorescence cut. This fluorescence existed in all the rest of the smabbed finites but never increased in intensity or contained any gas. Suabbad fluid for 9 hours. Fluid level stood at 900'. Recovered a net rise of 821' of water testing: pH 7, Cl 100 ppm. Pressure chart showed a static head of 525 psi which dropped to A00 psi then valve opened. Fluctuation of pressure during the period of symboling was from 400 psi to 500 psi. Pressure before and after swabbing was 400 psi. Pressure chart indicated valve was open throughout test period. After the packer was set, the annulus was filled with meter; and the fluid level in the annulus remained at the surface throughout the test period.

Tool detail: Ran Halliburton tester of 1650' of dry 2-1/2" UE tubing, 81' of 7" drill collers, with Shaffer jar-safety joint, and 1/2" bean in tool. Set single sidewall 8-1/2" packer at 1757' with perforated tail pipe from 1855'-1840" and from 1779'-1759', and two pressure recorders to 1864'.

January 23, 1952

Cemented for lost circulation. Pumped in 35 sache of Well Construction coment mixed with h sacks Calseal and 5 temple of 6% Gel-UnCle mater (ave. 97-1/2% per slarry) through of or end drill pipe at 1863'. Followed coment with 13 bearols water to displace. 5 minutes mixing and h winness displaceing. Cement in place at 3:00 a.m. Had returns during dimai period of displacement. Used Halliburten power equip wit.



STANDARD OXL COMPANY OF CAPAROLICA-OPERATOR

January 38, 1952

Ran 9-7/8" bit and cleaned out coment plug 1801-1864 with full returns. Drilled 9-7/8" hole 1864-867 and commenced locing mud at 35 barrels per hour rate. Bit dropped 1/2' at 1868' and circulation was look completely.

January 28, 1952

Commented for lost circulation. Pumped in 35 macks of Whah Construction coment mixed with 4 sacks of Caladal and 4-./2 barrels of CaCl₂ mater (ave. 116 per slurry) torough openend drill pipe at 1884. Followed coment with 13 barrols water to displace. 2 minutes mixing and 3 minutes displacing. Coment in place at 8:40 p.m. Used Halliburton power equipment.

January 29, 1952

At 12:30 a.m. located top cement plug at 1876' with Halliburton wireline. At 1:30 a.m. located top cement plug at 1885' with open-end drill pipe.

January 29, 1952

Gel-diesel and cement job for lost circulation. Promped in 3 barrels of diesel oil and followed with 4-1/2 barrels Wyogel-diesel oil mixture (3 barrels diesel oil and 12 sacks Wyogel) through open-end drill pipe at 1833'. Followed mixture with 1 barrel diesel oil. Followed Gel-diesel with 35 sacks of Utah Construction cement mixed with 4 sacks Calseal and 4-1/2 barrels CaCl₂ water (116 pef sluary) through open-end drill pipe at 1833'. Followed cement with 12-1/2 barrels water to displace. 3 minutes mixing and 3 minutes displacing. Reciprocated drill pipe through 7 interval (1876'-1833') throughout job. Gel-diesel mixture and cement in place at 3:05 a.m. Used Halliburton power squipment.

January 29, 1952

At 3:45 a.m. pumped in 200 barrels of water, but unable to fill hole. At 7:00 a.m. located top plug at 1859' and fluid level at 706' with Halliburton wireline. Located plug with drill pipe at 1884'.

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STATE OF SECULORS	
Dacons when oster 23.	STANDARD OIL COMPANY OF CALLFORNIA-OFFRATOR
January 29, 3.952	Gel-diesel and coment job for lost circulation. Details of job were same as for previous job, except pipt was reciprocated through 7' interval (1861'-1868') while displacing gel-diesel mixture, and pipe was hung at 1855' for cement job which followed. Cement was in place at 9:30 m.m. Used Halliburton power equipment.
Jenucry 29, 1952	At 1:30 p.m. located top plug at 1865' and fluid level at 758' with Halliburton wireline. At 3:30 pumped in 200 barrels of water but unable to fill hole.
January 29, 1952	Gel-diesel mixture job for lost circulation. Jumped in 3 barrels of diesel oil and followed with 20 barrels diesel-Wyogel mixture (14 barrels diesel oil and 42 sicks Wyogel) through open-end drill pipe at 1860'. Displaced with 13 barrels of diesel oil. Reciprocated drill pipe 1860'-1867' throughout job and pumped 10 barrels of water in annulus while pumping in and displacing mixture. Mixture in place at 6:55 p.m. Used Halliburton power equipment.
` January 29, 1952	At 9:00 p.m. located top plug at 1868' with open-end drill pipe.
January 29, 1952	Gel-diesel job for lost circulation. All details of job were same as for previous job except diesel-gel minture was in place at 11:15 p.m. Used Halliburton power equipment.
January 30, 1952	Attempted to fill hole with water without success.
January 30, 1952	Diesel-gel job for lost circulation. Fumped in 3 barrals diesel oil and followed with 20 barrels diesel-Wyogel mixture (14 barrels diesel oil and 42 sacks Wyogel) through open-end drill pipe at 1850!. Followed mixture with 6 barrels diesel oil. Mixture in place at 7:30 c.m. Usai Halliburton power equipment.

January 30, 1952

Attempted to fill hole with water without success.

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STANCE SEST OF THE PROPERTY OF	STAUDARD OIL COMPANY OF CALUFORNIA-OFER TOB
January 30, 1952	Diesel-gal job for lost circulation. Details the same as for previous job except mixture was displaced through pipe reciprocated from 1830'-1840' and displaced with 12 barrols diesel oil. Mixture in place at 10:3) a.m.
January 30, 1952	Attempted to fill hole with water without success.
January 30, 1952	Diesel-gel job for lost circulation. Details the same as for previous job except mixture was in place at 4:10 p.m.
January 30, 1952	Attempted to fill hole with water without success.
January 30, 1952	Cemented for lost circulation. Pumped in 35 sacks of Utah Construction cement mixed with h sacks Calseal and CaCl2 water (4-1/2 barrels) through open-end drill pipe at 1840. Followed cement with 12 barrels water to displace. 3 minutes mixing and 2 minutes displacing. Cement in place at 7:10 p. Used Halliburton power equipment.
Jenuary 31, 1952	Attempted to fill hole with water but fluid dropped away at 60 bbl./hr. rate.
Jenuary 31, 1952	Comented for lost circulation. Pumped in 35 eachs of Utah Construction cement mixed with 4-1/2 berrels of CoCl, water through open-end drill pipe at 1833. Followed consent with 15 barrels water to displace. 3 minutes wire 3 and 3 wintutes displacing. Coment in place at 5:10 a.m. Used Walliburton power equipment.
Januar;; 31, 1952	Filled hole with water and fluid level held at surface. Ran 9-7/8" bit and located top plug at 1765'. Cleaned out plug 1765'-1865' and lost circulation completely while cleaning out at 1865'.

January 31, 1952

Gel-diesel and coment job for lest circulation. Proposition 3 barrels diesel oil and 20 berrels diesel oil yogal mich ture (42 sacks Wyogol and 14 bearels diesel oil, through drill pipe reciprocated from 1855'-1855'. Pollowed

STANDARD OIL COMPANY OF CALIFORNIA OPERATOR

January 31, 1932 (Jenyid) gel-diesel oil mixture with 3 barrols diesel cil and pulled pipe to 1855'. Pimped in 35 sacks Utah Construction coment mixed with 4 sacks Calseal and CaCl water through open-end drill pipe at 1855'. Followed coment with 13 barrols water to displace. 3 minutes mixing and 3 minutes displacing. Coment in place at 7:15 p.m. Used Halliburton power equipment.

February 1, 1952

Pumped in 10 barrels water and located fluid level at 575 with wireline. Filled hole with water. Ran 9-7/8" bit and located plug at 1641'. Cleaned out coment and Gel with full returns to 1864', where circulation was lost completely. Ran open-end drill pipe and located plug at 1867'.

February 1, 1952

Cemented for lost circulation. Pumped in 55 sacks Utch Construction cement mixed with 6 sacks Calseal and 3-1/2 barrels CaCl, water (114 pcf slurry) through open-end drill pipe at 1856. Followed cement with 13 barrels water to displace. 5 minutes mixing and 3 minutes displacing. Cement in place at 9:30 a.m. Used Halliburton power equipment.

February 1, 1952

Located top cement plug at 1845' with Halliburton wirefune. Filled hole with water, and fluid level held at surface. Ran 9-7/8" bit, checked top plug at 1845', and cleaned out cement with full returns to 1865', where circulation was lost completely. Cleaned out to 1870' without returns.

February 1, 1952

Cemented for lost circulation. Pumped in 50 sacks Utah Construction cement mixed with 5 sacks Calseal and 4-1/2 barrels CaCl2 water through open-end drill pipe at 1865 Followed cement with 10 barrels water to displace. 4 minutes mixing and 2 minutes displacing. Cement in place 11:00 p.m. Used Halliburton power equipment.

February 2, 1952

Located top plug at 1831' with Halliburton wireline. Filled hole with mud. Fluid level held at surface. Han 9-7/0" bit, cleaned out plug with full returns 1831'-1875' and lost circulation while cleaning out at 1875'. Cleaned out with water and without returns 1875'-1886'.



Footnery 2, 1952

Comented for lost circulation. Pumped in 55 macks Utah Construction coment mixed with 5-1/2 makes Calseal and 5 barrels CaCl₂ water through open-end drill pipe at 183/4. Followed coment with 10 barrels water to displace. 4 minutes mixing and 2 minutes displacing. Central in place 11:00 a.m. Used Halliburton power equipment.

February 2-3, 1952

Located top plug at 1843' with Helliburton wireline. Filled hole with water, and fluid level held at surface. Ran 9-7/8" bit, cleaned out cement plug 1848'-1886' with full returns and drilled 9-7/8" hole 1886'-1912', limestone with some shale. Lost circulation completely while drilling at 1912'. Drilled with water and without returns 1912-1925'.

February 3, 1952

Comented for lost circulation. Pumped in 50 sacks Utah Construction cement mixed with 5 sacks Calseal and 5-1/2 barrels CaCl₂ water through open-end drill pipe at 1923. Followed cement with 12 barrels water to displace. 3 minutes mixing and 3 minutes displacing. Cement in place at 4:45 p.m. Used Halliburton power equipment.

February 3, 1952

Located top plug at 1873' and fluid level at 765' with Halliburton wireline. Pumped in 10 barrels water, stood 15 minutes, and located fluid level at 646'. Pumped in 175 barrels water but unable to fill hole.

February L, 1952

Cemented for lost circulation. Pumped in 50 sacks Utah Construction cement mixed with 5 sacks Calseal and 6 barrels CaClo water (121 pcf slurry), through open-end drill pipe at 1876. Followed cement with 15 barrels water to displace. 5 minutes mixing and 3 minutes displacing. Cement in place at 2:05 a.m. Used Halliburton power equipment.

February 4, 1952

Located top plug at 1859' and fluid level at 720' with Helliburton wireline. Pumped in 10 barrels water, and fluid level held at 577' for fifteen minutes. Filled hole with water, and fluid level held at surface. Ron 9-7/3" bits, cleaned out coment plug 1859'-1878', but hole book fluid at 25 bbls./hr. rate while drilling out.



February 4, 1952

Commented for lost circulation. Equalized 60 macks Utah Construction cement mixed with 8 barrels CaGlo water (ave. 11% pef slurry) through open-end drill pipe at 1923'. Displaced cement with 25 barrels water and had full returns to surface while displacing. Pulled drill pipe to 1801' and closed drill pipe rams. Squeezed cement with 3 barrels water (squeeze pressures for job were not known, because Halliburton pressure gauge was frozen). Held pressure for 5 minutes. 5 minutes mixing and 20 minutes displacing and squeezing. Cement in place at 3:45 p.m. Used Halliburton power equipment.

February 5, 1952

Ran 9-7/8" bit and located top plug at 1791', cleaned out plug 1791'-1925' and drilled 9-7/8" hole 1925'-1935' with full returns. Lost circulation completely while drilling at 1935'. Drilled with water and without returns 1935'-1947'.

February 5, 1952

Cemented for lost circulation. Pumped in 65 sacks Utah Construction cement mixed with 6 sacks Calsual and 8-1/2 barrels of CaCl₂ water (118 pcf slurry), through open-end drill pipe at 1945. Followed cement with 16 barrels water to displace. 5 minutes mixing and 3 minutes displacing. Cement in place at 12:45 p.m. Used Halliburton power equipment.

February 5, 1952

Located top plug at 1865' and fluid level at 667' with wireline. Filled hole with water and fluid level held at surface. Ran 9-7/8" bit, located top plug at 1865', cleaned out cement 1865'-1930' with full returns.

February 6, 1952

Commenced losing circulation while drilling out coment plug at 1930' and lost circulation completely while drilling out at 1934'. Drilled out cement with water and without returns 1934'-1947'.

February 6, 1952

Cemented for lost circulation. Pumped in 50 sacks Ideal Construction cement mixed with 6 barrels CaCl2 water (averally pef slurry) through open-end drill pipe at 1946. Followed cement with 17 barrels water to displace. 5 mixed utes mixing and 3 minutes displacing. Cement in place at 6:25 a.m. Used Halliburton power equipment.





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STANDARD OIL COMPANY OF CALIFORNIA-OPERATOR

February 6, 1952

Located fluid level at 389' with wireline. Stood 1/2 hr. and located fluid level at 399' and filled hole with Gel mud. Fluid level held at surface. Ean 9-7/8" bit, cleaned out cement with full returns 1884'-1904' and lost circulation while cleaning out at 1904'.

February 6, 1952

Cemented for lost circulation. Details the same as for previous job except cement was Utah Construction coment pumped through drill pipe at 1902, and cement was in place at 4:55 p.m.

February 6, 1952

Located top plug at 1872' and fluid level at 738' with Halliburton wireline. Pumped in 10 barrels water and located fluid level at 681'. Stood 15 minutes and located fluid level at 719'.

February 6, 1952

Cemented for lost circulation. Details were the same as for previous job except cement was pumped through drill pipe at 1871; and cement was in place at 11:00 p.m.

February 7-8, 1952

Located top plug at 1810' and fluid level at 525' with Halliburton wireline. Filled hole with mud, and fluid level held at surface. Ran 9-7/8" bit, cleaned out coment 1810'-1947' with full returns and drilled 9-7/8" hole 1947'-1999', limestone with some shale. Hole commenced taking fluid at 60 bbls./hr. rate at 1999', and circulation was lost completely while drilling at 2000'. Drilled 9-7/8" hole 2000'-2017' with water and without returns.

February 9, 1952

Pumped in 60 barrels thick Gel mud loaded with cotton hulls and seal flake through drill pipe at 2016'.

February 9, 1952

Cemented for lost circulation. Pumped in 50 sacks Utah Construction cement mixed with 6-1/2 barrels GaCl, water (116 pcf slurry) through open-end drill pipe at 2016. Followed cement with 16 barrels water to displace. 4 minutes mixing and 3 minutes displacing. Comput in place at 2:00 a.m. Used Halliburton power equipment.

February 9, 1952

Located top cement plug at 1968 with drill pipe. Hole would not hold fluid.



DESCLATION UNIT #1 MILIARD COULTS, UTAH



STANDARD OIL COMPANY OF CALIFORNIA-OPERATOR

February 9, 1762

Comented for lost circulation. Details here some as for previous job except cement was pumped through drill pipe at 1967' and cement was in place at 9:45 a.m.

February 9, 1952

Located top plug with drill pipe at 1888'.

February 9, 1952

Comented for lost circulation. Pumped in 50 sachs Utah Construction cement mixed with 6 barrels CaCl₂ water (118 pcf slurry) through open-end drill pipe at 1887. Displaced with 1 barrel water, 14 barrels mud followed with 1 barrel water. 3 minutes mixing and 6 minutes displacing. Cement in place at 5:45 p.m. Used Halliburton power equipment.

February 9-10, 1952

Located top plug at 1804' and fluid level at 535' with Halliburton wireline. Filled hole with water and fluid level held at surface. Ran 9-7/8" bit, cleared cut cement 1804'-1898' and commenced losing circulation at 1899' at 30 bbls./hr. rate. Drilled out cement with partial circulation to 1927'.

February 10, 1952

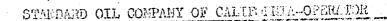
Construction cement mixed with 4-1/2 barrels CaCl, water (116 pcf slurry) through open-end drill pipe at 1926. Followed cement with 15 barrels water to displace. Two minutes mixing and three minutes displacing. Coment in place at 8:50 a.m. Used Halliburton power equipment.

February 10-11, 1952

Located top cement plug at 1685' with drill pape. Filled hole with mud and fluid level held at surface. Ean 9-7/3" bit, cleaned out cement 1885'-2017' with full returns, and drilled 9-7/8" hole 2017'-2054', limestone and shale, with full returns.

February 11, 1952

Diamond cored 7" hole 2054'-2064'. While coring at 2062' commenced losing mud at approximately 21 bbl./hr. rate. Mud loss continued to 2064'. After pulling 6.B. checked fluid loss by filling hole to surface with approximately 60 barrels mud. Fluid level at surface dropped to 6' in 15 minutes indicating an approximate 4 bbl./hr. loss.



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10'

Recovered 101: Limestone, gray, hard, tough to brittle, shaly in the upper portions, compact, finely crystalline. Contains common nodules and thin lenses of black, microcrystalline chert. There are only 2 main fractures, and these appear to be only slightly open. No fluorescent cut was obtained, although some calcute fillings had local blue-white, yellow, and very faint green illuorescence, There is no apparent staining, but a fair, fleeting petroliferous odor on a frosh surface. There is no apparent ? & P, except in the fractures centioned. Pcor dips of 20.

February 11-13, 1952

Opened 7" hole to 9-7/8" from 2054'-2064' and drilled 9-7/8" hole 2064'-2205', shaly limestone and shale. While drilling at 2205', twisted off leaving 9-7/8" bit, 157' of 7" DG's, and 9' subs in hole. Twisted off at 5" U.T. and RJ70 cross-over sub. Top fish 2037'. Ran 9" Shaffer socket and bumper sub, engaged fish and recovered same.

. February 14-15, 1952

Drilled 9-7/8" hole 2205'-2298', limestone and shale. Lost 20 barrels mud while drilling 2279'-2298'.

February 16, 1952

Diamond Gored 7" hole:

22981 23041 61 22981 23041 61

Recovered 61: Shaly limestone, gray to dark gray, hard, brittle, compact, fossiliferous, extremaly shaly, sugary-crystalline. Very badly fractured with calcity fillings to 1/4" thick and varying from vertical to 700. A few fractures appear to be very alignity open because of the very thin coating of scattered patches of mud they contain. Scattered, ragged stylolites with a black, shaly coating and some black. shaly partings are common. There is no apparent stain or out, although the calcide commonly fluoresces blue-make to cheeny white with a faintly groundsh tinge with rare more of onauge fluorescence; and there is a fair to very fair, thecting to slightly lingering petroloum oder. Ho

STANDARD OIL COMPANY OF CALIFORNIA-OPERATOR

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apparent P & P except in the fractures. Very poor to doubtful dips of 5°.

February 16-19, 1952

Opened 7" hole to 9-7/8" from 2298'-2304', and <u>drilled</u> 9-7/8" hole 2304'-2496', shaly limestone.

Fodinary 19, 1**952**

Ran Schlumberger electric log and micro-log. Recorded 204' to 2500'. Checked DP measurements after running electric log and corrected depth from 2496'-2499'.

Fobrance 20, 1952

Drilled 9-7/8" hole 2499'-2549', shely limostone.

February 20, 1952

Diamond Corod 7" hole:

25491 25491

2555' 6' 2555' 6'

6' Recovered 6':

Shale, very dark gray, hard, brittle, very dence and compact, lime cement. Very salightly platy. Fracturing is very minor. The very few fractures are completely calcite-filled and only to 1/32" thick. There is no fluorescence, stain, or cut. Locally there is an extremely faint, extremely fleeting petrolecum oder. No apparent P & P.

Very poor dips of 50.

February 20-24, 1952

Opened 7" hole to 9-7/8" from 2549'-2555' and drilled 9-7/8" hole 2555'-2796', limey shale.

February 25, 1952

Diamond Cored 7" hole:

2796' 2802' 2796' 2802'

61 61

Recovered 61: Shale, dark gray, very firm to hard, brittle, platy, slightly limey, locally fossiliferous, irregular nodules of pyrite. The very few fractures are local, calcite-filled and paper thin. Abundant cleavage planes dip at 55°. Fossils are localized in thin beds (1/2") and appear to be predominantly calcits-rapiaced braciopods? There is no stain, cut, or fluorescence and no dor, except a very local, prober doubtful, floating, fabid odor. There is no apparent P & P, unless some cleavage planes are very slightly open. Fossil zenes end other bedding features indicate an approximate dip of 10°.

STANDARD OIL COMPANY OF CALIFORNIA-OF STATOR

February 25-29, 1952

Opened 7" hole to 9-7/8" from 2796'-2802' and drilled 9-7/8" hole 2802'-3024', limey shale.

February 29, 1952

Diamond Cored 7" hole:

3024' 3029' 5' 5' 3024' 3029' 5'

Recovered 5:
Shale, dark gray to black, very firm to hard, tough, but very flaky, very dense and compact, limey, apparently homogeneous.
There are no fractures or cleavage planes. There is no stain, cut, or fluorescence, and only an extremely faint, very swiftly fleeting petroleum eder. There is no apparent P & P. Very poor

February 29-March 4, 1952

Opened 7" hole to 9-7/8" from 3024'-3029' and drilled 9-7/8" hole 3029'-3207-1/2', shale and limestone. Lost circulation completely while drilling at 3207-1/2', and bit dropped 1/2' to 3208'. Located fluid level at 1025' with Halliburton wireline.

dips of 5° - 7° .

March 5, 1952

Formation test 3163'-3208' M. G. Valve open 30 minutes from 1:58 a.m. Had medium strong blow decreasing to fair blow in 4 minutes, diminishing to faint in 5 minutes. Dead in 7 minutes. Commenced filling annulus with water; and a very faint, slightly pulsating blow was renewed for approximately 15 minutes. Stopped filling annulus, and the blow died. Pulled tester at 2:28 a.m. and reset packer at 2:32 a.m. Had negative blow (suction) for 3 minutes. Commenced filling annulus, and the very faint blow returned. Packer would not hold. Pulled tester and recovered 2668' net rise of muddy water testing: pH 8, Cl 350 ppm. Sample taken immediately above tool tested: pH 11.5; Cl 350 ppm.

Tool detail:

Ran Halliburton tester on 3062' of dry 2-1/2" UE tubing and 81' of DC's with Shaffer jar-safety joint and 1/2" been in tool. Set single 8-1/2" sidewall packer at 3163' with 45' of perforated tail pipe and two pressure recorders to 3208'.

March 5-6, 1952

Formation test 31731-32081. Valve open 19 hours 13 minutes from 8:52 a.m. (3/5/52). Medium strong blow steadily decreasing to medium blow in 2 minutes and diminishing to faint in 8 minutes. Dead in 11 minutes. Filled amulus with water and had no blow from tubing. Commenced swelding fluid at 2 p.m. Rig water tested: pH 8, Cl 175 (all salimities in parts per million). Drilling mud tested pH 11, Cl 350. First fluid swebbed was very muddy water testing: pH 3.5, Cl 3CO. The 28th swab run yielded muddy water with an extremely faint rainbow film on the surface and a very pula greenish-white fluorescence that gives a Cl, cut. This film does not increase upon standing for any period of time. The fluid also was becoming grayish brown in color, had a sulfur

DEMOLETION UNIT #1 HELLAGI COUNTY, UTAIL



Yeard: 5-6, 1952 (Cont'd)

(HoS) swemp-like odor, and yielded & pis of total gas (all methane). It tested: pH 9.5, Cl 300. The gas content increased very gradually to 7 pts total cas (all. motheme) on the 100th swab run. The fluid had become very dark gray to black in color, and the sulfur odor was strong throughout the rig and nearby area. It tested ph 9.5, Cl 400. On the 112th swab run the fluid began changing to a more reddish-brown color and increased to 10 pts total gas (all methane). This color change continued throughout the remainder of the swabbing, and the increased gas content remained relatively steady between 12 and 15 pts of rotal gas (all methane). At this point the fluorescence and rainbow film decreased and were not apparent after the 120th swabbing. The final or 148th swab yielded dark brown water with the very strong sulfur odor and 12 pts total gas (methane). It tested pH 9.25, Cl 600. Swabbed 148 times, recovering about 400-450' of fluid per run or recovered a total of approximately 350 barrels of fluid. The fluid level on the first swab run was at approximately 1600'. It was 1500' on the second swab, 1000' on the fourth sumb, and steadied at approximately 750' on the fifth sumb, where it remained throughout the test. Recovered net rise of 156' of muddy water (testing pH 9.25, Cl 550). This fluid recovered from the tubing only gave 3 pts total gas with 2 pts of methane. The fluid in the tool gave 4 pts total gas with 1 pt of methane, and cuttings in the tool yielded 9 pts total gas and 1 pt methane. The pressure bombs did not operate properly, and therefore the pressure charts could not be interpreted. The annulus, above the packer, was filled with water throughout the test, and after 7 hours this water level had dropped 132'. Because the fluid was plain water and the fact that the swabbed fluid was strong sulfur water containing gas, indicates this water loss was probably not past the packer.

Tool detail: Ran Halliburton tester on 3072' of dry 2-1/2" UE tubing and 81' of 7" drill collars with Shaffer jar-safety joint and 1/2" bean in tool. Set single sidewall packer at 3173' with 35' of perforated tail pipe and two pressure recorders to 3208'.

March 6, 1952

Drilled 9-7/8" hole 3203'-3221' with water and without returns. Twisted off while drilling at 3221'. Left 247' of fish in hole, including 9-7/8" bit, 4 subs, and 238' of drill collars with top of fish (7-1/8" DC) at 29741. Ran 9" Shaffer socket with 7-5/16" slips, Shaffer bumper sub, Shaffer jar-safety joint, and 79' of BC's. Took hold of fish and recovered same.

March 7, 1952

Cemented for lost circulation. Pumped in 150 sacks of cement (135 sacks Utah and 15 sacks Ideal) mixed with 20 harrels of CaCl₂ water (ave. 118 pcf slurry) through open-end drill pipe at 3218'. Followed cement with 1 barrel water and 30 barrels mud to displace. 14 minutes mixing and 5 minutes displacing. Cement in place at 2:55 a.m. Used Halliburton power equipment.

March 7, 1952

At 7:00 a.m. located top solid cement plug at 3019' with open-end drill pipe.

March 7, 1952

At 9:00 a.m. filled hole with water, and fluid level held at surface.

March 7, 1952

Cleaned out cement 3019'-3221'. Drilled 9-7/8" hole 3221'-3241', limestone and shale.

61

March S, 1952

Diamond Cored 7" hole (core #17):

3265' 3271'

6 Recovered 6:

3265' 3271'

Liney shale, dark gray to black, hard, dense, and very compact, extremely limey, apparently thin bedded (1/2" - 6"). Conplately fractured and shattered throughout. Some fractures are to 1/2" thick, crystalline calcite lined, and apparently slightly open. Smaller fractures are cormonly completely calcite filled, though a few appear slightly open. Predominantly high angle. NSC or fluorescence, but some fresh surfaces and fractures have a very fetid (H2S) odor, as in the symbbod fluid of HFT #2A. No apparent P & P except in fractures. Fair to good dips of 12-160.

March 8, 1952

Opened 7" hole to 9-7/8", 3265'-3271'. <u>Drilled 9-7/8"</u> hole 3271'-3290'.

March 9, 1952

Drilled 9-7/8" hole 3290'-3306'. Partial lost circulation while drilling 9-7/8" hole 3306'-3317'; total loss over this interval was 200 barrels. Drilled 9-7/6" hole 3317'-3354' with negligible fluid loss.

March 10, 1953

Drilled 9-7/8" hole, 3354'-3421'; limostone and shale.

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DESOLATION UNIX. #1	
MILLARD COUNTY, UTAH	



STANDARD OIL COMPANY OF CALLFORNIA-OFFRATCR

March 31, 1952

March 12, 1952

March 12, 1952

Drilled 9-7/8" hole, 3421'-3500'; shale and limestone.

Drilled 9-7/8" hole, 3500'-3525'.

Diamond Cored 7" hole: (core #13)

3525' 3530' 5' 3525' 3530' 5' Recovered 51:

Shale, dark gray to black, hard, extremely brittle and platy, very limey, carbonaceous, rather thin bedded (1/2" to 1').

Occasional thin, calcite-filled fractures and common thin calcite fillings, apparently along bedding planes. Abundant highly polished (slickenside) planes generally appear to be associated with bedding plane slippage.

N.O.S.C.F. No apparent P & P. Fair to good dips of 30°.

March 12, 1952

March 13, 1952

March 14, 1952

March 15, 1952

March 16, 1952

March 16, 1952

Opened 7" hole to 9-7/8", 3525'-3530' and drilled 9-7/8" hole 3530'-3544'; shale and limestone.

Drilled 9-7/8" hole 3544'-3614; limestone and shale.

Drilled 9-7/8" hole 3614'-3694'; limestone and shale.

Drilled 9-7/8" hole 3694'-3760'; shale and limestone with some chert in the interval 3722'-3760'.

Drilled 9-7/8" hole, 3760'-3768'.

Diamond Cored 7" hole (Core #19):

3768' 3773' 5' 3768' 3773' 5' Recovered 51:

Shale, very dark gray to black, very firm, extremely brittle and fissile, slightly dolomitic, extremely fractured and shattered, very numerous slickensided surfaces cutting through core at every angle, those surfaces very highly polished-vitreous lustreconchoidal fracture; upper 1/3 less compact than lower 2/3. Fractures filled with white dolomite and of a very irregular, interconnected nature. No SCOF. No apparent P & P, except possible in fractures. Very poor to doubtful dips of 50.

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March 15, 1952

March 17, 1952

March 18, 1952

March 16, 1952

March 19, 1952

March 19, 1952

Opened 7" hole to 9-7/8", 3768'-3773', and drilled 9-7/8" hole 3773'-3802', shale, slightly dolomitic.

Drilled 9-7/8" hole, 3802'-3856'; shale with trace of limestone.

Formation test 3674'-3856'. Ran Halliburton formation test on 3538' of dry 4-1/2" F.H.D.P. and 134' of 7" DC's with Shaffer jar-safety joint and 1/2" been in tool. Set single cidewall packer at 3674' with 58' of 5-9/16" perforated drill pipe and 118' of 4-1/2" drill pipe and two pressure recorders to 3856'. Perforations 3674'-3729' and 3851'-3854'. Valve open 37 minutes from 6:15 a.m. Had fair air blow diminishing to faint in 1 minute, very faint in 2 minutes, gradually dying by fair heads. Dead in 7 minutes. Recovered net rise of 107' drilling, mud testing: W 75 pcf, V 120 sec. CL-550 ppm. Mud in ditch: W75 pcf, V 61 sec. CL-550 ppm. Had 12 pts total gas and 11 parts methane in recovered mud. Mud in annulus dropped 12 inches during test period. Top pressure chart showed static head of 1850 psi which dropped to 125 psi when valve opened and remained at 125 psi throughout test period. Bottom chart showed static head of 1950 psi, which dropped to 200 psi when valve opened and remained at 200 psi throughout test period. Charts indicated valve opened throughout test and tester operated satisfactorily.

Drilled 9-7/8" hole, 3856'-3897'; shale.

Drilled 9-7/8" hole, 3897'-3950'; shale.

Diamond Cored 7" hole (Core #20):

3950' 3956' 6' 3950' 3956' 5'

Recovered 5': Shale, dirty dark gray to black, commonly firm to earthy and extremely brittle, but locally hard and brittle, very slightly limey and dolomitic, very slightly fossiliferous. Core is very badly shattered with calcite streaks locally; and apparently along bedding places, except for a 6" zone in the center of the core, it is almost impossible to kreak a fresh surface. As in Core /19, it breaks along very highly polished, slickensided surfaces. MOSCF. Some P & P possibly exists within, shattered zones. Very poor dipa of 12-18°.

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March 20, 1952

March 21, 1952

March 22, 1952

March 22, 1952

STANDARD OIL COMPANY OF CALLFORMIA-OPERATOR

Opened 7" hole to 9-7/8", 3950'-3956', and drilled 9-7/8" hole 3956'-4013'; shale.

Drilled 9-7/8" hole, 4013'-4079'; shalo.

Formation test 3942'-4408'. No. Ran Halliburton test on 3851' of dry 4-1/2" DP, 80' of 7" DC's, with Shaffer jar-safety joint, 1/2" bean in tool. Set straight single sidewall packer at 3942' with 166' of tail pipe including 47' of perforated 3942'-3987' and 3' perforated 4102'-4105', and two pressure bombs to 4108'. Valve open 11 minutes from 3:19 a.m. Had fair blow for 1 minute, diminishing to faint blow for 4 minutes, to faint, steady pulsating heads for 5 minutes. Fluid in annulus dropped 10' when plar was set. Held momentarily; then dropped slowly cut of sight. Recovered 730' mud testing: W 75 pcf and CL-500 ppm. Pressure charts indicated that packer leaked immediately after valve was open and continued to leak for entire test period.

Formation test 3934'-4108'. Ran Halliburton test on 3799' of dry 4-1/2" DP, 134' of DC's, and Shaffer jar-safety joint, with 1/2" bean in tool. Set single sidewall packer at 3934' with 174' of tail pipe perforated 3934'-3979' and 4102'-4105', and two pressure recorders to 4108'. Valve open 40 minutes from 11:02 a.m. Had fair puff blow for 30 seconds; then dead for 9-1/2 minutes. Fluid level held at surface for first 10 minutes. Opened by-pass valve and closed again without unseating packer to determine if tool was plugged. Lost approximately 7 barrels of much from annulus through by-pass before closing by-pass valve, then fluid level held in annulus. The opening and closing of the bypass valve was accompanied and followed by a medium good blow for 5 minutes, indicating tool was not plugged. The blow diminished to fair for 1 minute, very faint for 1 minute, then dead for 14 minutes. Pulled packer loose after jarring 29 tons over weight of testing string. Recovered. 734' not rise (490' of which was probably mud that entered DP when by-pass value was opened) testing Wt. 75 per; Vis. 75 sec.; CL-500 ppm. There was a total of 12 points of gas in mud, which included 10 points of methane. The top pressure chart showed a static head of 2000 psi, which dropped to O psi when valve opened and remained at O psi for 10 minutes, at which time the by-pass valve was opened to determine if tool was plugged. After by-pass valve was opened and closed, the tool partially plugged for balance of test period. The bottom pressure chart showed a static head of 2150 pei, which dropped to 300 psi when the valve opened, then invediately increased to 2150 psi, indicating that the bottom gorforations plugged. The top chart indicated that the valvo was open, packer held, and the uppermost 45' of perforations were open for the first 10 minutes of the test and that this



STANDARD OIL COMPANY OF CALIFORNIA-OPERATOR

Harch	22,	1952
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first 10-minute period of the test was conclusive. Although the bottom chart indicates that the lowermost 3' of performtions became plugged immediately after the valve was opened, the top chart shows that the first 10 minutes of the test were conclusive for the overall interval 3934'-4103'.

March 22, 1952

Drilled 9-7/8" hole, 4108'-4128'; shale.

51.

March 23, 1952

Drilled 9-7/8" hole, 4128'-4168'.

March 23, 1952

Diamond Cored 7" hole (Core #21):

4168' 4173' 4168' 4173' Recovered 5':

Shale, dark gray to black, firm. to hard, brittle, dense, highly shattered and contorted with numerous highly polished slickensided surfaces, occasional finely disseminated pyrite; pour indication (by faintly noticeable lineations) of dips ranging from horizontal to nearly wertical. No apparent P & P, except possibly in calcite veinlets and shattered zones. No odor or stain. Very small and very scattered spots of good yellowbrown fluorescence occurring throughout core. Some areas with more than others; has a poor, pale greenish-yellow flucyescent cut. These are found (acfar as could be determined) only on slickensided surfaces.

March 24, 1952

Opened 7" hole to 9-7/8", 4168'-4173', and <u>drilled 9-7/8"</u> hole, 4173'-4229'; shale and limestone.

March 25, 1952

Drilled 9-7/8" hole, 4229'-4265'; shale and linestone.

March 26, 1952

Drilled 9-7/8" hole, 4265'-4294'; predominantly shale, with some limestone.

March 27, 1952 .

Drilled 9-7/8" hole, 4294'-4343'; shalo.

March 28, 1952

Drilled 9-7/8" hole, 4343'-4380'; shale.

March 29, 1952

Drilled 9-7/8" hole, 4380'-4415'; shale.

STANDARD OIL COMPANY OF CALIFORNIA-OPERATOR

March 30, 1952

Drilled 9-7/8" hole, 4415'-4435'; shale.

March 30, 1952

Diamond Cored 7" hole (Core #22):

44351 44351 4440' 5' 4440' 5'

Recovered 51:

Recovered 101:

Good dips of 80-120.

Shale, dark gray to black, hard, tough to slightly brittle, very dense and compact, slightly calcareous, especially near the bottom, siliceous, moderately coarse. There are several short, calcite-filled fractures; and one reaches a maximum width of 1/16". No apparent P & P. N.S.C.F. A fresh surface has a faint, slightly lingering H₂S ocor. Poor dips of 2°-10°.

March 30, 1952

Opened 7" hole to 9-7/8", 4435'-4440' and drilled 9-7/5" hole 4440'-4442'; shale.

March 31, 1952

Drilled 9-7/8" hole, 4442'-4480'; shale with traces of limestone.

April 1, 1952

Diamond Cored 7" hole (Core #23):

4480'

4490' 4490' 10'

Shale, dark gray to black, very firm to hard, brittle to extremely brittle in the shattered zone, slightly siliceous, very slightly calcareous, except locally, where it is very limey, pyritic, fine to moderately coarse. There is no major fracturing; but extremely thin calcite filled fractures are common, especially in the shattered zone between 4462'-4484'. There is no apparent P & P, except possibly in the shattered zone. NSCF. A fresh surface has a fair, lingering odor of MpS.

April 1, 1952

Opened 7" hole to 9-7/8", 4480'-4490', and drilled 9-7/8" hole, 4490'-4531'; shale.

April 2, 1952

Drilled 9-7/8" hole, 4531'-4585'; fractured chale.

April 3, 1952

Drilled 9-7/8" hole, 4585'-4590'; limestone.

STATE RD-CARSAATE DESTACTOR CRIT #1 HILLARD COUTY, UTAH

STANDARD OIL COMPANY OF CALLFORNIA-OPERATOR

April 3, 1952

Diamond Cored 7" hole (Core #24):

4590' 4605' 15' 4590' 4605' 15'

Recovered 15':

Limestone, light to medium to dark gray, hard, brittle, very dense and compact, commonly very pure, palitic, fossiliferous, finely crystalline; high-angle colcite-filled fractures are occasional to common and may be locally to 1/4" wide. Large (to l'), irregular, calcitefilled vugs and openings are rather common, jagged stylolites. No apparent P & P, except possibly in the stylolites and rarely in the fractures. MSUF. Locally a very faint, fleeting, fetid odor. No dips are apparent.

fractures. NOSCF. No apparent of P & P. Dips are not apparent on the limestone, but very good dips of 50-90 appear in the shale.

April 3-4, 1952

Diamond Cored 7" hole (Core #25):

46051	46431	381	Recovered 381:
46051	46201	15'	Limestone, as in Coro #24.
44-2			Calcite-filled fractures and
			stylolites are much less common,
			and calcite-filled vags are
			very rare. MSCF. Locally an
			extremely faint, flecting, fetic
			odor. No apparent P & P, except
46051	46201	231	possibly along stylolites.
1,007	40.00		(4620'-4643') Shale, dark gray
			to black, hard, brittle to very
			brittle, very thin bodded,
		. 7	slightly calcareous, quite horo-
			genous, pyricic, medium grained,
			Rare to locally occasional, trin-
			high-angle, calcite-filled from-
		100	
			tures. Commonly very highly
			polished slickensided surfaces
			along bedding pleass and some

April 4-5, 1952

Opened 7" hole to 9-7/8", 4590'-4643'.

April 6, 1952

Conditioned hole for formation test.

STANDARD OIL COMPANY OF CALLEDRAIN-OPERATOR

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Formation test 4591'-4643'. Ran Halliburton tester on 14.32' dry 4-1/2" DP and 159.57' drill collars with Shaffer jar safety joint and 1/2" bean in tool. Set single sidevall packer at 4591' with 51.60' perforated tail pips and 1 pressure recorder at 4643'. Valve open 21.5 minutes. Opened at 7:45 a.m.; week blow for 1 minute, very weak to faint blow for 1/2 minute. Dead 1-1/2 minutes after opening. Dead for 20 minutes. Pulled packer at 3:06 a.m. Recovered net rise of 25' of drilling fluid (pH 11.5, C1-300). Fluid level held in annulus. Pressure charts indicate test was valid.

April 7, 1952

Drilled 9-7/8" hole, 4643'-4665'; shale.

April 8, 1952

Drilled 9-7/8" hole, 4665'-4709; shale and limestone.

April 9, 1952

Drilled 9-7/8" hole, 4709'-4769'; shale and limestone.

April 10, 1952

Drilled 9-7/8" hole, 4769'-4809'; shale.

April 11, 1952

Drilled 9-7/8" hole, 4809'-4863'; shale.

April 12, 1952

Drilled 9-7/8" hole, 4863'-4915'; shale.

April 13, 1952

Diamond Cored 7" hole (Core #26):

49231 49151 49231 4915

Recovered S':

Shale; dark gray to black; tough to brittle, hard, slightly to very slightly calcareous; homogeneous, thin bedded, medium to coarse grained; fairly common highly polished slickensided surfaces on bedding planes, and occasionally cuttings bedding planes. Fairly pyritic; no apparent fossils. Calcitefilled fractures are very occasional to locally corror. They both parallel the bedding and cut across it at fairly high angles. NOSCF. Very good dips of 3-60-average 40. We apparent P & P; except possibly along

April 13, 1952

Opened 7" hole to 9-7/8" from 4915'-4923', and drilled 9-7/3" hole, 4923'-4955'; shale.

fractures.

April 14, 1952

Drilled 9-7/8" hole, 4955'-5014'; shale.

April 15, 1952

Drilled 9-7/8" hole, 501/4'-5081'; shale.

STANDARD OIL COMPANY OF CALIFORNIA-OPERATOR

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April	16	1952
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Drilled 9-7/8" hole, 5081'-5139'; shale.

April 17, 1952

Drilled 9-7/8" hole, 5139'-5180'; shale.

51

April 17-18, 1952

Diamond Cored 7" hole (Core #27):

5180' 5180' 5185' 5185' ! Recovered 5!:

Shale; dark gray to black; hard to very hard, extremely dense and compact; tough to brittle along edges; dolomitic, pyritic, thin bedded, fine to medium grained. Rare, high-angle, calcite-filled fractures to 1/8" wide. Polished, slickensided surfaces are rare. No apparent P & P. NOSCF. Good dips of 60-80.

April 18, 1952

Opened 7" hole to 9-7/8" from 5180'-5185', and <u>drilled</u> 9-7/8" hole, 5185'-5218'; shale.

April 19, 1952

Drilled 9-7/8" hole, 5218'-5266'; shale with limestone and silt.

April 20, 1952

Drilled 9-7/8" hole, 5266'-5321'; limestone with shale and silt.

April 21, 1952

Drilled 9-7/8" hole, 5321'-5368'; shale with limestone and silt.

April 22, 1952

<u>Drilled</u> 9-7/8" hole, 5368'-5424'; shale with trace of limestone and silt.

Recovered 51:

April 23, 1952

Drilled 9-7/8" hole, 5424'-5445'.

April 23, 1952

Diamond Cored 7" hole (Core #28):

5445' 5445' 5450°

4

Limestone; very impure (silty and/or shaly); dark gray to dark brown-gray; hard; dense; fairly brittle; hemogeneous lith-ology throughout core, except for fractured and brecciated zones; no recognizable fossile. The core is cut by numerous high-angle, calcite-filled fractures (up to 1/2"); other less common fractures (up to 1/3") are filled

tures (up to 1/3") are filled with black silt or shale, and, when broken open, are highly

slickensided. There are 2 prominent breccia zones-one li from

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STANDARD OIL COMPANY OF CALLFORNIA-OPPRATOR

April 23, 1952 (Gent'd) the bottom and the other 1' from the top-which are up to 4" thick, but vary considerably. NSCF. Fresh surfaces yield a fair H₂S odor. No apparent P & P, except possibly along fractures. No apparent bedding.

April 23, 1952

Opened 7" hole to 9-7/8" from 5445'-5450', and drilled 9-7/8" hole, 5450'-5459'; limestone and shale.

April 24, 1952

Drilled 9-7/8" hole, 5459'-5475'. While drilling at 5475' lost 75 berrels mud. Continued to lose mud at 6-12 bbls/hr rate to 5477', where full returns were obtained. Drilled ahead and commenced losing mud at 60 bbls/hr rate to 5484'.

April 24-25, 1952

Halliburton formation test, 5447'-5484'. Valve open 2 hours 2 minutes from 6:04 p.m. (4-24-52). There was a weak blow for the first 1/2 minute, increasing rapidly to a good blow, which remained steady until 6:25 p.m., when it began decreasing very slowly to a fair to good blow. The blow diminished to a steady, weak blow until dead at 8:06 p.m. Dead for 3 minutes. Pulled packer at 8:09 p.m. and recovered a net rise of 4414' of mud and muddy water testing as follows:

ALLA' above packer: wt. 76, pH 10.75, Cl 200, gas: 2 total, 1 methane, no fluorescence.
3514' above packer: wt. 74, pH 10.75, Cl 200, gas: 2 pts.
total, 1 methane, no fluorescence.
2614' above packer: wt. 70.5, pH 10.5, Cl 200, gas: 2 pts.
total, 1 methane, no fluorescence.
1714' above packer: wt. 69, pH 10.5, Cl 150, gas: 2 pts.
total, 1 methane, no fluorescence.
814' above packer: wt. 67.5, pH 10.5, Cl 200, gas: 2 pts.
total, 1 methane, no fluorescence.
85' above packer: wt. 67, pH 10.5, Cl 200, gas: 2 pts.
total, 1 methane, no fluorescence.
5' above packer: wt. 66, pH 10.3, Cl 200, gas: 2 pts.
total, 1 methane, no fluorescence.

The drilling fluid immediately prior to losing circulation tested: wt. 86, pH 12.0-Cl 350. The pressure chart showed at static head of 2938 psi, which dropped to 280 psi when valve opened, then gradually increased to 2125 psi and remained at 2125 psi for last 15 minutes of test period. Pressure chart indicated valve opened throughout test. Fluid level held in annulus throughout test.

Tool detail:

Ran tester on 5277' of dry 4-1/2" drill pipe and 160' of 7" drill collars with Shaffer jar cafety joint and 1/2" bean in tool. Set single sidewall packer at 5447' with 37' of perforated tail pipe and one pressure manager to 5484'.



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STANDARD OIL COMPANY OF CALIFORNIA-OPERATOR

April 25, 1952

At 5 a.m. spotted 75 barrels of thick Gol mud mixed with cotton seed hulls on bottom through open-end drill pipe at 54831. Filled hole to surface, but fluid level dropped at 10-15 bbl/hr rate.

April 25, 1952

Cemented for lost circulation. Pumped in 50 sacks of Utah Construction coment mixed with 38 cu. ft. of water (ave. 114 pcf slurry) through open-end drill pipe at 5483'. Followed coment and displaced with 75 barrels of mud. 24 minutes mixing and 4 minutes displacing. Coment in place at 11:53 a.m. Had returns while displacing cement. Used drilling contractor's mud tank and mud pumps for job.

April 25, 1952

At 5:00 p.m. filled hole to surface, and fluid level held olcay.

April 26, 1952

Drilled 9-7/8" hole, 5484'-5505'.

April 26, 1952

Twisted off at 5:00 p.m. while drilling at 5505', leaving 205.7' of fish in hole, including 6-7" drill collars, 3 subs, and 9-7/8" Hughes bit. Top of fish at 5296' with RJ70 BC sheared-off pin up. Ran Shaffer 9" socket with 7-1/16" slips, Shaffer bumper sub, and Shaffer rotary jars. Took hold of fish, but slips failed to hold when pulled. Ran same tools as before, but with 6-13/16" slips in socket. Unable to engage fish.

April 27, 1952

Ran Shaffer 9-1/8" O.D. socket with 7-1/16" long pull-down slips, Shaffer bumper sub, and Shaffer rotary jars. Took hold of fish repeatedly, but slips failed to hold when pull of 38,000# over weight of fishing string was applied. Ran same tools as above, except with 9" O.D. socket with 7-5/16" slips. Unable to engage fish. Pulled and found two bow springs missing, one slip jammed, and cage jammed.

April 28, 1952

Ran new 9" O.D. Shaffer socket with one 6-13/16" and two 7-5/16" slips, Shaffer bumper sub and Shaffer jars. Engaged fish but unable to circulate through fish with 1700 psi pump pressure. Jarred on fish with 30 T. blows for 1/2 hour, and worked fish up 2'3"; then socket came loose from fish. Attempted to engage fish, but slips failed to hold. Pulled socket and found one slip missing, two small pieces of iron from lower part of cage missing, and socket bowl damaged.

April 29, 1952

Ren new 9" O.D. Shaffer socket with 7-3/16" slips, Shaffer bumper sub, and Shaffer jers. Worked socket over fish but unable to engage slips. Pulled and found impressions ca socket guide shoo that were probably from alip look in bale from previous run. Slips indicated socket had been over fish, but damaged cam prevented slips from seating.

April 30, 1953

Repaired can and re-ran 9" O.D. Shaffer socket with 7-3/16" slips, Shaffer jar-safety joint, and Shaffer bumper sub. Found 2-1/2' of fill above fish. Cleaned cut 2' of iill with socket but unable to get lower. Ran 9-7/3" bit to top of fish, conditioned hole, and rotated on top of fish to mill up lost slip. Ren 9" O.D. socket with 7-13/16" slips and engaged fish. Applied 1500 psi pump pressure through fish and jarred for 5-minute intervals with 30 T. blows for 7-1/2 hours. Jarred fish up 21; then socket came loose. Pulled socket and found one slip missing and two small pieces of iron from socket cage.

Ran 9-7/8" Hughes W7R bit, reamed 5181'-5275', and rotated on fish to mill up lost slip. Ran 90 0.D. Shaffer socket with 7-3/16" slips, Shaffer jar-safety joint, Shaffer bumper sub, engaged fish, and jarred with 30 ton blows for I hour while maintaining 1250 psi pump pressure on drill pipe. Fish jarred up approximately 5', then came free. Picked up approximately 20,000# over weight of fishing string. Recovered all of fish.

Drilled 9-7/8" hole, 5505'-5561; limestons and shale.

While drilling at 5551' lost 110 bbls. mud at 31 bbls/hr rate. Rate of loss decreased to 20 bbls/hr at 5555' and to 10 bbls/hr at 5558'.

Drilled 9-7/8" hole, 5561'-5640'; limestone and shale. While drilling at 5570' drilling fluid was being lost at rate of 10 bbls/hr. Added & sacks of Cal-seal over period of 5 hours while drilling 5573'-5604'. Loss of fluid gradually diminished to virtually zero through interval of 56041-56401.

Drilled 9-7/8" hole, 5640'-5722'; shale and limestone.

Drilled 9-7/8" hole, 5722'-5764'; limestone.

Diamond Cored 7" hole: (Core #29)

5764 57771 131 131 57771 57641

Recovered 13': Dolomite; medium to dark gray; sub-brittle; glimmering on fresh surfaces; upper 7' are dark gray, slightly silty, and finely crystalline; lower 6' fairly pure, medium gray, medium crystalline, and massive; all of core is moderately to highly fractured, but upper 7' such more then lower 61; fractities are intercommeted, producted the high angle to verbical, and up to 1/3" wide; fractures are filled

May 2, 1952

May 1, 1952

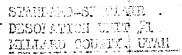
May 2, 1952

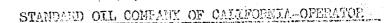
May 3, 1952

May 4, 1952

May 5, 1952

May 5, 1953





May 5, 1952 (Cont'd) or kined with calcaraous colomite which often flowers out
into irregular pores to tight
vugs. Some of the fracturing
in the upper part approaches
brecciation. Many of fractures
in the upper part, and occasionally in the lower part, show
P & P. NSCF. P & P only along
fractures. Upper 7' have fair
H₂S odor on fresh surfaces.
There was no recognizable bedding.

Gas; mud; 2 total-1 methane; cuttings; 6 total-5 methane.

May 6, 1952

Halliburton formation test #7 (5701'-5777'). Ran Halliburton tester on 5602' of dry 4-1/2" drill pipe and 82' of 7" drill collars with Shaffer jar safety joints, 1/2" bean in tool. Set single sidewall packer at 5701' with 76' of tail pipe perforated 5701'-5724' and 5754'-5777', and one pressure recorder to 5777'. Valve open 8 hours and 22 minutes from 3:28 a.m. to 11:50 a.m. (5/6/52). Initial strong puff, but diminished immediately to weak and gradually to very weak and finally faint at 3:33 a.m. Blow then increased gradually to weak by 3:45 a.m. and stayed weak until 3:55, when it diminished to faint by occasional yery faint heads, but quickly picked up again to weak and remained weak-varying slightly in intensity-until about 10:00 a.m., when it began to gradually diminish and finally died at 11:30 a.m. Dead for 20 minutes. Recovered net rise of fluid of 4835' testing: 4835' above packer, wt. 64.5, pH 11, C1 200, gas 2-1; 3935; above packer, wt. 62.5, pH 10.5, C1 300, gas 2-1; 3035' above packer, wt. 62.2, pH 10, Cl 300, gas 2-1; 2135' above packer, wt. 62.2, pH 10, C1 300, gas 2-1; 1235' above packer, wt. 62, pH 10, Cl 200, gas 2-1; 535; above packer, wt. 62.2, pH 10, C1 200, gas 2-1; 87' above packer, wt. 62.5, pH 10, Cl.250, gas 2-1; 7' above packer, wt. 67.5, pH 10, Cl 250, gas 3-2. All samples were contaminated with rig dope, but none showed any oil fluorescence. All samples odorless. Upper 700'-800! of rise was drilling fluid; rest of rise (except for contamination at bottom of drill collar) consisted of muddy water which became fairly clear upon standing. Pressure chart showed static head of 2900 psi, which dropped to 150 psi when value opened and gradually increased to 2150 psi, where it remained for last 20 minutes of test. Chart showed best satisfactory. Lost about 5 barrels of mud during test.

5.500 5050; and loss mas 10 bbls/hr. He are less will deilling 5830'-5864'. 5884'-5895' locing and at rate of 23 bbls/hr.

Drilled 9-7/8" hole, 5895'-5919'; dolomite. While drilling this interval, mud lost gradually decreased from 23 bbls/hr to no loss.

Recevered 10':

Diamond Cored 7" hole (Core #30):

5919' 5929' 10' 5919' 5929' 10'

Dolomite: dark gray; moderately arenaceous and argillaccous; hard; dense; fine to medium crystalline; sub-brittle to brittle; rare pyrite. Moderately to highly fractured -lower 5' much more than upper 5'. Fair P & P along some fracturesespecially in lower 5'. Fractures predominantly very high angle to vertical. Often offset by low-angle fractures. Fractures very irregular and up to 1/3" in diameter. Most fractures are lined or filled with white dolomite. Low-angle fractures commonly filled with black argillaceous material and frequently slickensided. Very faint yellow fluorescence throughout much of the core. Will not cut. No stain. Faint, fleeting HoS odor on fresh surfaces. No recognizeble bedding. P & P along fractures. Gas: 2 total--1 mothene.

May 8, 1952

May 8, 1952

May 8, 1952

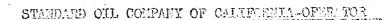
May 9, 1950

May 10, 1952

Opened 7" hole to 9-7/8", 5919'-5929' and drilled 9-7/8" hole, 5929'-5940'.

Drillod 9-7/6" hole, 5940'-6040'; dolomite with traces of silt and chert.

Drilled 9-7/8" hole, 6040'-6081'; dolomita.



May 10, 1952

Diamond Cored 7" hole (Core #31):

6081' 6086' 5' 6081' 5'

Recovered 51:

Dolomite: dark gray; hard, brittle, moderate to slightly argillaceous, fossiliferous??, finely crystalline. The core is highly shattered, and stylolites are very common. Ture, white crystalline dolomits nodules are common and frequently open in the center, forming small (to 1/2" in diameter) vugs. P & P appear to exist only within the wags and possibly along some stylolites. MSC. There are rare to occasional spots of very faint, hasy orange fluorescence widely scattered throughout the core. They will not cut and do not appear inside vugs. A fresh surface has a faint HoS odor. No dips are appearant.

May 10, 1952

May 11, 1952

May 12, 1952

May 12, 1952.

Opened 7" hole to 9-7/8", 6081'-6986' and <u>crilled 9-7/8"</u> hole, 6036'-6092', dolomite.

Drilled 9-7/8" hole, 6092'-6166', delomite.

Drilled 9-7/8" hole, 6166'-6195', dolomite.

Diamond Cored 7" hole (Core #32):

61951 62001 51 61951 62001 51 Recovered 5:

Dolomite: dark gray to darkbrown gray, very dense and compact, homogeneous, slightly argillaceous, slightly fessiliferous, finely crystalline. Core appears to be slightly shattered and has abundant hair. thin white dolomite-filled fractures. Rare small vugs and occasional stylolites. P & P possibly exist within some vugs, stylolites, and fractures; local spots of faintly bull shrerescence will not cut. No apparent staining. Fresh surface yields a fair, fleeting HoS odor. Ho recognizable dips.

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STALDARD-SURCLATIC DESCLATION UNIT VI NILLAND CONTRA UTAH

STANDARD OIL COMPANY OF CALAFORNIA-OPERATOR

Hay 12, 1932

Ran Schlumberger electrical survey. Recorded 2498'-6202'. Ran Schlumberger micro-log. Recorded 2498'-6198'.

May 13, 1952

Ran Schlumberger section gauge. Recorded 201'-6197'.

May 13, 1952

Ran Lane Wells neutron and gamma ray log. Recorded 204'-6198'.

May 14, 1952

Bridged hole with cement at 4667'. Pumped in 34 sacks of Utah construction cement mixed with 25 cu. ft. CaCl₂ water (ave. 136 pcf slurry) through open-end drill pipe at 4657'. Displaced cement with 368 cu. ft. mud. 6 minutes mixing and 14 minutes displacing. Cement in place at 9:29 p.m. Used Halliburton power equipment.

May 15, 1952

At 3:30 a.m. ran open-end drill pipe to 4727', but found no plug. Bridged hole with cement at 4667'. Pumped in 34 sacks of Utah construction cement mixed with 25 cu. It. CaCl₂ water (ave. 116 pcf slurry) through open-end drill pipe at 4667'. Displaced cement with 368 cu. It. of mud. 2 minutes mixing and 11 minutes displacing. Cement in place at 6:38 a.m. Used Halliburton power equipment. At 12:30 p.m. ran open-end drill pipe to 4727', but found no plug.

May 15, 1952

Bridged hole with cement at 4667'. Pumped in 50 sacks of Utah construction cement mixed with 36 cu. ft. of GaClarater (ave. 116 pcf slurry) through open-end drill pipe at 4667'. Displaced cement with 364 cu. ft. mud. 6 minutes mixing and 12 minutes displacing. Cement in place at 2:35 p.m. Used Halliburton power equipment.

May 15, 1952

Bridged hole with cement at 4667'. Details of job same as for previous job, except cement was in place at 10:55 p.m.

May 16, 1952

Ran 9-7/8" bit and located top of cement at 4575'; clashed out to 4585' and conditioned mud for formation test.

May 17, 1952

Attempted formation test \$\(\lambda \). Ren Halliburton tester on \$\(\lambda \). Of dry \$\(\lambda \). A drill pipe and 90° of 7" drill collers with Shaffer jer-safety joint, \$\(\lambda \). Attempted to set straight siderall packer at \$\(\lambda \).\(\lambda \) with 13% of tail pipe perforated \$\(\lambda \). Plug would not hold

STARRAN - STOUDIR DESCLANTOR DEST SI NELLARD COMEST, UTAH

STANDARD OIL COMPANY OF CALIFORNIA OFFICE TOR

May 17, 1932 (Cont'd) tester, packer slid kO', and valve failed to open except momentarily as packer slid. Pulled and recovered 360% of drilling fluid.

May 17, 1952

Ran 9-7/8" bit and cleaned out to 4604'.

May 16, 1952

Halliburton formation test 1465'-4604': Ran Halliburton tester on 4366' of dry 4-1/2" drill pape and 85' of "" drill collars with Shaffer jar-safety joint, 1/2" been in tool. Set single sidewall packer at 4465' with 139' of tail pipe (perforated 4467'-4495' and 4581'-4604') and one pressure recorder at 4604'. Valve open 35 minutes from 12:21 a.m. Weak blow immediately, dying slowly to dead in 5 minutes; dead in 30 minutes. Recovered net rise of 120' of drilling fluid testing: wt. 65 pcf, vis. Al sec. Mud in ditch tested: wt. 65 pcf, vis. 36 sec. Recovered fluid had a thick, frothy surface, which was contaminated with coarse to finely disseminated rig grease. The grease appeared to be the source of the bright, blotchy yellow fluorescence. No staining or odor. Mud from ditch led. similar fluorescence, but of reduced intensity. Fluid level held in annulus throughout test. Pressure chart showed static pressure of 2075 psi, which dropped to 125 psi when valve opened and gradually increased to 150 psi at end of test. Chart showed valve was opened throughout test remiod.

May 18, 1952

Bridged shoe of 16" casing at 204'. Pumped in 80 sacks of Utah construction cement mixed with 432 cu. ft. of CaCl₂ water (ave. 116 pcf slurry) through open-end drill pipe at 250'. Displaced cement with 14-1/2 cu. ft. water. 7 minutes mixing and 1/2 minute displacing. Cement in place at 3:32 p.m. Capped 16" casing with 20 linear ft. of cement. Welded plate on surface of 16" casing. Well abandoned and rig released at 8:00 p.m., May 18, 1952.

FILE EDIT OIL GAS GAS PLANT REPORTS DB MAINTENANCE OPTIONS HELP DATA CONVERSION LOGS DATABASE QUERY

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IGNATED OPERATOR			ACCOUNT				
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